



Preview – Information



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Google Slides Lessons Preview





Saskatchewan Math Curriculum Shape & Space – Grade 3

3-Part Lesson Format

Part 1 – Minds On!

- Learning Goals
- Discussion Questions
- Quotes
- And More!

Learning Goal

We are learning to use units of time, including seconds, minutes, hours, and non-standard units, so we can describe how long different events take.



Non-Standard Units - How Much Time Has Passed?

Drag the numbers and labels to determine how much time has passed using non-standard units of time.

Field Trip

Birthday Party

1 2 3 4 5

Or

Swimming Lesson

And

6 7 8 9 0

Elapsed Time	Non-Standard Units - How Much Time Has Passed?
1) 5 hours	1 Birthday Party And 1 Field Trip
2) 2 hour	
3) 7 hours	
4) 4 hours	
5) 1 hour	
6) 9 hours	
7) 10 hours	

Part 2 – Action!

- Writing
- Matching
- Drag and Drop
- Drawing
- And More!

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Non-Standard Units – Word Problems

- 1) Noah went to a swimming lesson and a field trip. How many hours did he spend altogether?
- 2) Ethan had 10 hours for weekend fun. He went to one birthday party and two swimming lessons. How many hours did he use? How many hours did he have left?





Saskatchewan Math Curriculum

Shape & Space – Grade 3

Measuring Time – Seconds, Days, Hours, Minutes

Drag the numbers to fill in the tables below.

1 2 3 4 5 6 7 8 9 0

Seconds (sec)	Minutes (min)
60 seconds = 1 minute	60 minutes = 1 hour

Hours (hr)	Days (d)
24 hours = 1 day	1 day = 24 hours

Seconds	Minutes
60	1
	3
360	
	8
540	
600	

Minutes	Hours
60	1
	2
300	
	7
	9
	10

Hours	Days
24	1
	3
96	
	7
192	
	10

Train days.

WORD BANK

Wednesday

Friday

Saturday

Monday

Thursday

Sunday

Tuesday

Friday

Compare the objects below and drag the checkboxes.

 ☐	 ☐	 ☐	 ☐	 ☐
 ☐	 ☐	 ☐	 ☐	 ☐
			 ☐	

Saskatchewan Math Curriculum

Shape & Space – Grade 3

Using Referents to Measure Mass

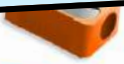
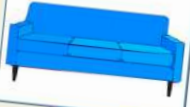
Drag the circle to the estimate you think makes the most sense.

1) A tennis ball	a) 1g b) 500g c) 1kg d) 50g		4) A button	a) 100g b) 500g c) 100kg d) 1g	
2) A can of soup	a) 10g b) 500g c) 100kg d) 1g		5) A pair of trainers	a) 100g b) 500g c) 1kg d) 10g	
3) A laptop	a) 10g b) 500g c) 1kg d) 200g		6) A postage stamp	a) 100g b) 50g c) 1g d) 10g	

Metric System – Grams

Which unit would you use to measure the mass of the things below. Drag the labels to answer.

	Grams	Kilograms
Pair of socks		
Cat		
Toothbrush		
Sandwich		
Television		
Cupboard		
Scissors		
Guitar		
Headphones		
Picture frame		
Bicycle		
Perfume		

Units	
m	cm
	
	
	
	
	



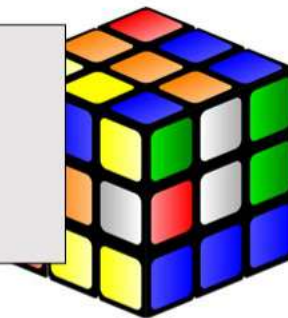
Workbook Preview





Grade 3

Shape and Space



	Curriculum Expectations	Pages
SS3.1	Demonstrate understanding of the passage of time including: • relating common activities to standard and nonstandard units • describing relationships between units • solving situational questions.	5-69
SS3	Demonstrate understanding of measuring mass in g	
Preview of 80 pages from this product that contains 323 pages total.		
SS3.3	• selecting and justifying referents • generalizing the relationship between cm and m • estimating length and perimeter using referents • measuring and recording length, width, height, and perimeter.	88-126
SS3.4	Demonstrate understanding of 3-D objects by analyzing characteristics including faces, edges, and vertices.	148-182
SS3.5	Demonstrate understanding of 2-D shapes (regular and irregular) including triangles, quadrilaterals, pentagons, hexagons, and octagons including: • describing • comparing • sorting.	129-145
TQ	Tests and Quizzes	70-71, 127-128, 146-147, 183-184

Non – Standard Units of Time - Seconds

We don't always use hours, minutes, and seconds for time. We can also use non-standard units.



Blinking _____ and _____



Usain Bolt runs 100m
= 10 seconds



Washing Hands = 20 seconds

Elapsed Time

How Much Time Has Passed?

1) 10 seconds

Usain Bolt 100m race or 10 blinks

2) 30 seconds

3) 15 seconds

4) 45 seconds

5) 55 seconds

6) 20 seconds

7) 40 seconds

Name: _____

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Curriculum Connection
SS3.1

Non – Standard Units of Time - Seconds

Questions

Think of 3 non-standard units for each of the times below

Time	Your Own Non-Standard Units		
1 S	1		
	2		
	3		
10 Seconds	1		
	2		
	3		
30 Seconds	1		
	2		
	3		

Non – Standard Units of Time - Minutes

Questions

Use non-standard units to estimate how much time the event would take

Event	How Much Time Would Pass
Having dinner	<u>1 lunch time and 1 bathroom break</u>
Playing a sport	
Eating dessert	
Reading a book	
Cleaning your room	
Shoveling the driveway	
Making breakfast	
Exercising or Yoga	
Driving to the grocery store	

Non – Standard Units of Time - Hours

Questions

Use non-standard units to estimate how much time the event would take

Event	How Much Time Would Pass
Driving Across Saskatchewan	 2 hockey games
Driving to school	
Playing a round of golf	
Playing with a friend after school	
Going to a restaurant	
Going shopping	
Going swimming	
Going fishing	
Playing on the computer	

Do You Have Time ?

Part 1

Circle the times you could do the things below in

1) Write your name	Minutes	Hours	Days
2) Run home from school	Minutes	Hours	Days
3) Eat a sandwich	Minutes	Hours	Days
4) Watch TV	Minutes	Hours	Days
5) Go to bed	Minutes	Hours	Days
6) Read a chapter book	Minutes	Hours	Days
7) Have a full night's sleep	Minutes	Hours	Days
8) Have recess	Minutes	Hours	Days
9) Beat a video game from start to finish	Minutes	Hours	Days
10) Colour a picture	Minutes	Hours	Days

Part 2

Circle the times you could do the things below in

1) Learn how to play a new instrument	Weeks	Months	Years
2) Save enough money to buy a new bike	Weeks	Months	Years
3) Learn a new language	Weeks	Months	Years
4) Finish a season of hockey	Weeks	Months	Years
5) Watch all episodes of a TV show	Weeks	Months	Years
6) Learn how to skateboard	Weeks	Months	Years
7) Memorize all multiplication facts up to 10x10	Weeks	Months	Years
8) Write a story with pictures	Weeks	Months	Years

Activity Title: Time Tracker

Objective

What are we learning about?

Students will understand the concept of the passage of time by relating everyday activities to both standard (minutes, hours) and nonstandard units of time (number of songs, episodes of a TV show).

Materials

What you will need for the activity.

- Stopwatch or timer
- Blank sheets
- Pencils
- A list of activities to time



Instructions

How you will implement the activity

- 1) Introduce the concept of time to the students, explaining standard units (seconds, minutes, hours) and nonstandard units (like the time it takes to sing a song).
- 2) Distribute the pre-made tables to each student. Each table has two columns: Activity, Standard Time, and Nonstandard Time.
- 3) As a demonstration, use the stopwatch to time a common classroom activity from the provided list, such as reading a page from a book.
- 4) Ask each student to select 3 activities from the provided list of activities, which includes tasks like writing a short paragraph, solving a math problem, or crafting a simple origami.
- 5) Students predict how long each selected activity will take in both standard and nonstandard units and record their predictions in the table.
- 6) Have students time their selected activities using the stopwatch to determine the actual duration, and then fill in the Standard Time and Nonstandard Time in their tables.
- 7) Discuss as a class why understanding time is important and how different activities can take up different amounts of time.

Options

Select three activities from the table below

Option 1: Reading a page from a book : Time how long it takes to read a single paragraph aloud.	Option 2: Drawing a simple picture : Draw a house or a tree.
Option 3: Shoelace Speed Race : See how quickly you can tie your shoelaces.	Option 4: Copywriting Exercise: Copy a short text from the board as quickly as you can.
Option 5: Copywriting Exercise: Write a few sentences as quickly as possible.	Option 6: Vocabulary Speed Test : List as many words as you can about the weather

Standard Units of Time	
Ten Deep Breaths	One Teeth Brushing Session
One Page Read	Three Microwave Beeps
Twenty Jumping Jacks	One Minute of Singing Happy Birthday

Answers

Record your answers below

Activity	Standard Time		Instant Time	
	Prediction	Actual Time	Prediction	Actual Time
	Prediction	Actual Time	Prediction	Actual Time
	Prediction	Actual Time	Prediction	Actual Time

Measuring Time – Seconds, Days, Hours, Minutes

Seconds (sec)	Minutes (min)	Hours (hr)	Days (d)
60 seconds = 1 minute	60 minutes = 1 hour	24 hours = 1 day	1 day = 24 hours

Part 1

Fill in the tables below

Seconds	Minutes
60	1
	2
300	
360	
420	
	8
	9
600	

Minutes	Hours
60	1
	2
180	
	5
	7
480	
540	
	10

Hours	Days
24	1
48	2
72	
	4
	5
144	
168	
	8
	9

Part 2

Convert the units of measurement below

1) 1 hr _____ min

5) 240 mins _____ hr

9) 5 d _____ hrs

2) 240 sec _____ min

6) 72 hrs _____ d

10) 360 min _____ hrs

3) 180 sec _____ min

7) 540 mins _____ hr

11) 240 hrs _____ d

4) 2 d _____ hr

8) 168 hrs _____ d

12) 480mins _____ hrs

Time – Word Problems

Questions

Read the problems and solve them below

1. Kennedy played in a baseball game that lasted 1 hour and 48 minutes. How many minutes total was the baseball game?



2. Kennedy ran in 5 minutes 37 seconds. How many seconds did it take him to run?

3. Jeremy and Jackson played video games for 96 days in a row. How many months did they play video games for?



4. Sam and Bruce played a round of golf for 240 minutes. How long did they play golf for?

5. Zachary played in a hockey game yesterday for 10 minutes. How many seconds did he play hockey?



Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

a) Convert the unit of measurement below

420 mins = _____ hrs

b) Lily watched a movie that lasted 2 hours and 35 minutes. How many minutes long was the movie?

Name: _____

a) Convert the unit of measurement below

420 mins = _____ hrs

b) Lily watched a movie that lasted 2 hours and 35 minutes. How many minutes long was the movie?

Name: _____

a) Convert the unit of measurement below

420 mins = _____ hrs

b) Lily watched a movie that lasted 2 hours and 35 minutes. How many minutes long was the movie?

Name: _____

a) Convert the unit of measurement below

420 mins = _____ hrs

b) Lily watched a movie that lasted 2 hours and 35 minutes. How many minutes long was the movie?

Activity Title: Time Treasure Hunt

Objective

What are we learning about?

To help students understand and practice converting time between seconds, minutes, and hours through a fun and engaging treasure hunt.

Materials

What you will need for the activity.

- Stopwatch (or students could use a smartphone)
- Index cards
- Markers
- Small prizes (for treasure)
- Tape



Instructions

How you will complete the activity

- 1) Prepare before class by writing different time conversion challenges on index cards. For example, "Convert 300 seconds to minutes. How many seconds are in 2 hours?"
- 2) Hide these cards around the classroom or in a designated safe outdoor area, taping them under chairs, desks, or tucked into non-obvious places.
- 3) Divide the class into small teams and give each team a stopwatch.
- 4) Explain the game: each team will hunt for a card, solve the problem as quickly as they can, and return to you for verification.
- 5) Start the timer when you say "Go!" Each team rushes to find their first card.
- 6) When a team thinks they have the correct answer, they come back to you. If correct, they receive a small prize and move on to find the next card.
- 7) The game continues until all cards are found or you call time. The team with the most correct answers wins.
- 8) Discuss the game, focusing on the time conversion problems and solutions each team encountered.

Instructions

Cut out the cards below

Convert 120 seconds to minutes.

How many seconds are there in 3 minutes?

How many minutes are there in 180 seconds?

Convert 2 hours to minutes.

If a cartoon lasts 300 seconds, how many minutes is that?

How many minutes are there in half an hour?

Change 600 seconds into minutes.

Convert 480 seconds to minutes.

Instructions

Cut out the cards below

If you play for 900 seconds,
how long is that in minutes?

How many seconds are in 5
minutes of a game?

Change 180 seconds
into minutes.

Convert 3 hours into
minutes.

If a movie is 7200 seconds
long, how many hours is
that?

How long is 2 hours in
seconds?

Convert 15 minutes to
seconds.

How many seconds are
there in 1 hour?

Instructions

Cut out the cards below

How many hours are there
in 360 minutes?

If a train travels for 3 hours,
how many minutes is that?

Convert 5 minutes
to seconds.

If you read for 15 minutes,
how many seconds is that?

How many seconds are in
10 minutes?

Convert 2 hours to
seconds.

Sally bakes cookies for
1800 seconds. How long is
that in minutes?

If a soccer match lasts 2
hours, how many minutes is
that?

Instructions

Cut out the cards below

Convert 20 minutes to seconds.

How many minutes are there in 5 hours?

How many minutes are there in 2 hours?

If you sleep for 8 hours, how many minutes is that?

Convert 5 days into hours.

Change 100 hours into days.

If a TV show lasts 2700 seconds, how many minutes is that?

Convert 4 hours into seconds.

Name: _____

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Curriculum Connection
SS3.1



Introduction – Days of the Week



Questions

Answer the questions below using the word bank

Sunday	Monday	Tuesday	Wednesday
Thursday	Friday	Saturday	

1) What day is after Sunday?	
2) What day is after Monday?	
3) What day is after Saturday?	
4) What day is before Friday?	
5) What day is before Thursday?	
6) What day is two days after Monday?	
7) What day is before Monday?	
8) What is the first day of school in a week?	
9) What day does the weekend start on?	
10) What day is the middle of the school week?	

Name: _____

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Curriculum Connection
SS3.1

Days of the Week

Thursday	Friday	Sunday	Monday
Saturday	Wednesday	Tuesday	

Questions

Fill in the Blanks

1)	2)	3) Tuesday
4)	5) Thursday	6)

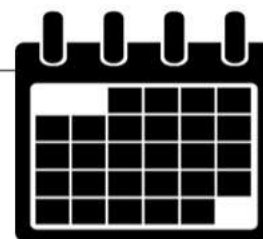
Questions

Fill in the Blanks



Yesterday	Today	Tomorrow
	Sunday	
	Wednesday	
	Saturday	
	Tuesday	
	Friday	
	Thursday	
	Monday	

Days of the Week- Questions



Questions

Answer the questions below

1) What two days start with the letter S?

Days of
the
Week



2) How many days in a week?

5) What two days are on the weekend?

3) What 5 days make up the school week?

6) What is your favourite day of the week?

4) What is your least favourite day of the week?



Introduction – Months of the Year

May	January	June	March
August	September	July	December
October	February	April	November

Questions Write the months of the year below from January to December

1)	January
2)	
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	December

March						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

April						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

May						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Name: _____

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Curriculum Connection
SS3.1

Months Word Scramble

May	January	June	March
August	September	July	December
October	February	April	November



Questions

Unscramble the words to reveal the month of the year

Scrambled Month	Month
ROMNIB	
MEDCEERB	
RALPI	
UENJ	
JYLU	
RCTBOEO	
UTSGAU	
AMY	
YUNAJAR	
RPEEBTSME	
FRUBYERA	

Months of the Year – Questions

Questions

Answer the questions below

1) What month is your birthday?

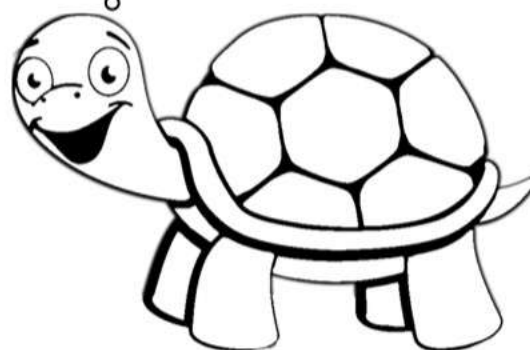
2) How many months in a year?

3) What 2 months do you go on holiday in the summer?

4) Which months end in -er?

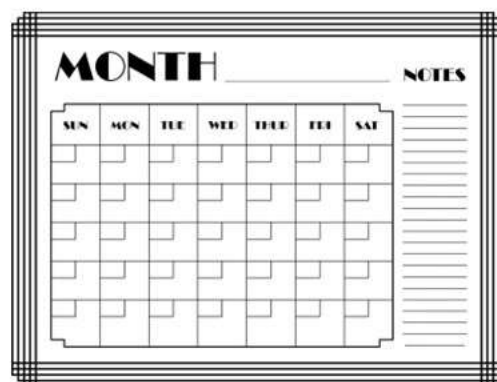
5) Which month do you start school?

Months
of the
Year



6) Which month does school end?

7) Which month is your favourite?



Months of the Year – Calendar

Part 1

How many days are in the following months?

Month	Days in the Month
January	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	



PREVIEW

Part 2

Answer the questions below

1) Which months have 30 days?

2) Which month has the least number of days?

--

3) Which day is the first day of the year?

--

Months / Years – Problem Solving

Part 1

Fill in the table below

Years	Months
1	12
	24
	36
4	
6	
	8
8	

Months
January
February
March
April
May
June
July
August
September
October
November
December

Part 2

Answer the questions below

1) How many months are there from March to October?

2) Sam was born 36 months ago. How many years old is Sam?

3) Rebecca started a business 4 years ago. How many months ago did she start her business?

4) Haley has been playing baseball for 72 months. How many years has she been playing baseball?

5) Pat can retire in 5 years. How many months of work does he have left?

Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

a) Sophie is 5 years and 2 months old. How many months old is Sophie?

b) Julia bought her car 48 months ago. How many years ago did she buy her car?

Name: _____

a) Sophie is 5 years and 2 months old. How many months old is Sophie?

b) Julia bought her car 48 months ago. How many years ago did she buy her car?

Name: _____

a) Sophie is 5 years and 2 months old. How many months old is Sophie?

b) Julia bought her car 48 months ago. How many years ago did she buy her car?

Name: _____

a) Sophie is 5 years and 2 months old. How many months old is Sophie?

b) Julia bought her car 48 months ago. How many years ago did she buy her car?

Days in a Week – Problem Solving**Questions**

Fill in the table below



Weeks	Number of Days
1	7
2	14
3	
4	28
5	
6	42
7	
8	
9	63
10	

1) How many days are in 3 weeks?

2) How many weeks are 49 days?

3) Your birthday is in 5 weeks. How many days is it until your birthday?

4) School is over in 14 days. How many weeks until school is over?

5) A guest presenter is joining you in 12 weeks. How many days do you have to wait?

Days in a Week – Problem Solving

Questions

Answer the questions below

1) Jasper has a birthday in 21 days. How many weeks until his birthday?



2) Ellie has a concert in 4 weeks. How many days until the concert?



3) Daniel starts hockey in 8 weeks. How many days until he starts hockey?



4) Erica graduates from school in 35 days. How many weeks until she graduates?



5) Payton starts a new job in 8 weeks. How many days until he starts his new job?



6) Nolan starts swimming lessons in 6 weeks. How many days does he have to wait?



Days in a Week – Problem Solving

Questions

Answer the questions below

1) Ruby turns 8 years old in 3 weeks and 5 days. How many days until Ruby's birthday?



2) Kaylee is going camping in 5 weeks and 2 days. How many days until Kaylee goes camping?



3) Jackson gets a new puppy in 4 weeks and 4 days. How many days until Jackson gets his new puppy?



Days / Week – Problem Solving Calendar

Questions

Use the calendar to answer the questions

1) How many weeks are there between Sunday, September 5th and Sunday, September 26th?

September 2024						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

2) The date is Monday, September 6th. Rory's birthday is Monday, September 20th. How many weeks until Rory's birthday?



3) The date is Friday, September 3rd. Rory starts basketball on Friday. How many weeks does Rory start basketball?



4) The date is Wednesday, September 1st. Olivia has a test on Wednesday, September 22nd. How many weeks until Olivia's test?



5) Emma's birthday is Thursday, September 23rd. Gracie's birthday is Thursday, September 9th. How many weeks older is Gracie than Emma?

b) How many days older is Gracie?



Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

a) Joshua has a dentist appointment in 3 weeks. How many days until his appointment?

b) Liam is getting a new bicycle in 38 days. How many weeks/days until Liam gets his bicycle?

Name: _____

a) Joshua has a dentist appointment in 3 weeks. How many days until his appointment?

b) Liam is getting a new bicycle in 38 days. How many weeks/days until Liam gets his bicycle?

Name: _____

a) Joshua has a dentist appointment in 3 weeks. How many days until his appointment?

b) Liam is getting a new bicycle in 38 days. How many weeks/days until Liam gets his bicycle?

Name: _____

a) Joshua has a dentist appointment in 3 weeks. How many days until his appointment?

b) Liam is getting a new bicycle in 38 days. How many weeks/days until Liam gets his bicycle?

Measuring Time – Days, Weeks, Months, Years

Days (d)	Weeks (w)	Months (m)	Years (yr)
7 days = 1 week 365 days = 1 year ~30 days = 1 month	52 weeks = 1 year ~ 4 weeks = 1 month	12 months = 1 year	1 year = 12 months 1 year = 52 weeks 1 year = 365 days

Part 1 Fill in the table below

Days	Weeks	Months	Months	Years
	4	1	12	1
14	8	2		2
			36	
		4	48	
35	20			5
42		6		6
	28		84	
63	36			9
70		10		

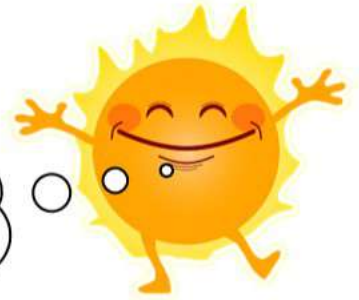
Part 2 Convert the units of measurement below

1) 1 w	_____ d	5) 28 w	_____ m	9) 5 y	_____ m
2) 70 d	_____ w	6) 36 m	_____ y	10) 4 w	_____ d
3) 42 d	_____ w	7) 9 y	_____ m	11) 28 w	_____ m
4) 12 w	_____ m	8) 84 m	_____ y	12) 120 m	_____ y

Seasons - Questions

Questions

Answer the questions below

1) What season is the coldest?
_____Seasons of
the Year2) Which season is the warmest?
_____6) Which season comes after fall?
_____3) What are the 4 seasons?

_____Which season comes after spring?
_____8) Which is your least favorite season?
_____4) Which season comes after summer?
_____9) What is your favourite season?
_____5) Which season comes after winter?
_____

Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

Convert the unit of measurement below

12 years = _____ months

96 months = _____ years

350 days = _____ weeks

Name: _____

Convert the unit of measurement below

12 years = _____ months

96 months = _____ years

350 days = _____ weeks

Name: _____

Convert the unit of measurement below

12 years = _____ months

96 months = _____ years

350 days = _____ weeks

Name: _____

Convert the unit of measurement below

12 years = _____ months

96 months = _____ years

350 days = _____ weeks

Name: _____

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Curriculum Connection
SS3.1

Seasons

Questions

Draw pictures of what the seasons remind you of

Summer

Fall

Winter

Spring

PREVIEW

Name: _____

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Curriculum Connection
SS3.1**Calendar Investigation - January****January 2024**

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2		4
		7	8		10	
1		14		16	17	
19				23		25
	27			30	31	

Questions

Answer the questions by looking at the calendar

1) Which season is it in **January**?

2) What date is circled?

3) What will the date be...

a) 2 days before January 12

b) 5 days after January 16

c) 10 days after January 7

d) 1 week after January 14?

Calendar Investigation - December**December 2024**

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	
3	4		6			9
10	11		13	14		16
	18		20	21		23
	25	26			29	30
31						

Questions

Answer the questions by looking at the calendar

1) Which season is it in **December**?

2) What date is circled?

3) What will the date be...

a) 2 days before December 7

b) 5 days after December 14

c) 10 days after December 20

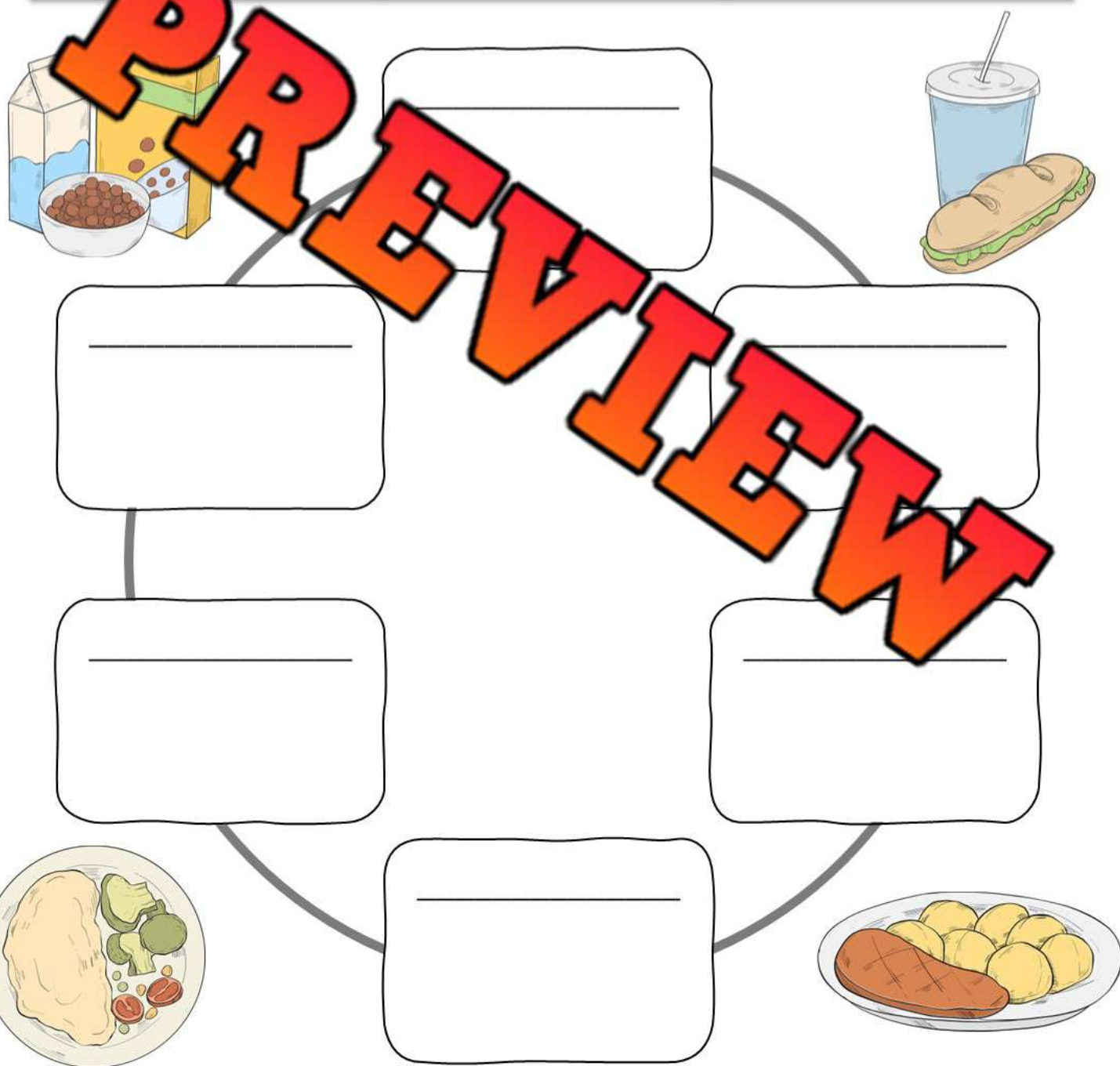
d) 3 weeks after December 1?

Cycles In Your Life - Eating

Eating Cycle

Use the word bank to fill in your meal cycle. Draw pictures of the food you eat at each meal

Dinner	Lunch	Breakfast
Snack	Snack	Snack



Name: _____

69

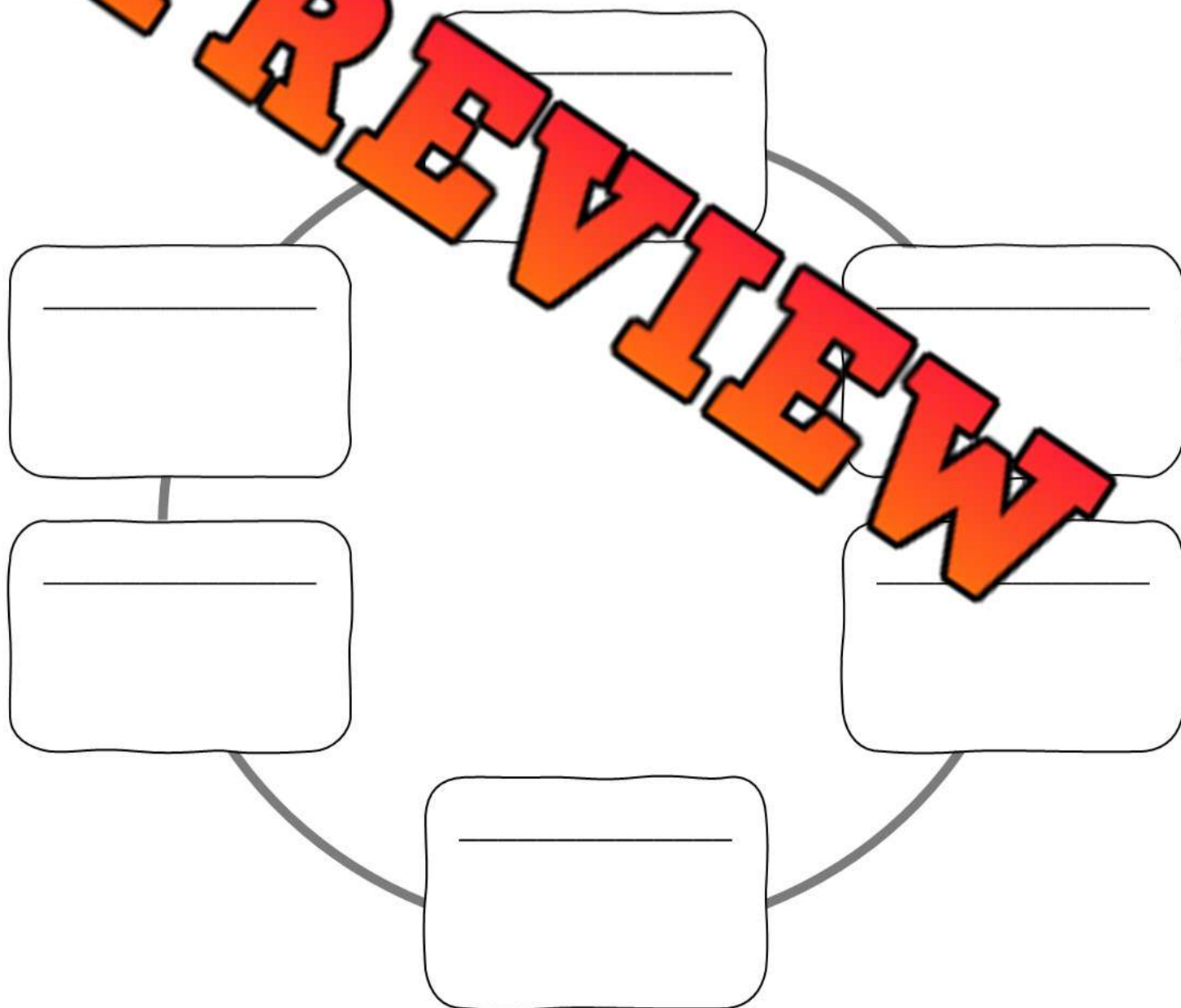
Curriculum Connection
SS3.1

Cycles In Your Life

Can you think of 6 important things you do everyday? Put them in the cycle below.

--	--	--	--	--	--

Cycle _____
A cycle is a series of events in your life



Name: _____

70

Curriculum Connection
TQ**Time – Unit Quiz****Part 1** Fill in the tables below

Seconds	Minutes
	1
120	
	3
3	

Minutes	Hours
60	
	2
180	
240	
	5

Hours	Days
24	
	2
72	
	4
	5

Part 2 Which unit of measurement (days, weeks, months, years) would you use?

	Unit of Measurement
a) Playing in a basketball tournament – _____ week	
b) Length of time we go to school – September _____ June	
c) How long it takes to graduate from high school _____	
d) How long the summer season is.	
e) How long winter break is.	

Part 3 Which unit of measurement is larger?

1)	42 days	6 weeks	2 months	1 year
2)	500 days	10 weeks	5 months	1 year
3)	60 days	6 weeks	3 months	2 years
4)	90 days	30 weeks	25 months	2 years

Part 4

Answer the questions below

1) How many days are in a week?

2) How many months are in a year?

3) Fill in the calendar below

December						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
5	6			9		
	13	14			17	18
	20		22		24	
26		28		30		

4) What will the date be...

a) 2 days before December 6?

b) 5 days after December 22?

c) 2 weeks after December 7?

Part 5

Answer the questions below

1) Courtney is 2 years old. How many months old is she?

2) Thomas is 3 years and 3 months old. How many months old is Thomas?

3) Nick starts school in 3 weeks. How many days until he starts school?

Balancing Scales – Measuring Mass

Questions

How many ○ do the objects weigh?

1)



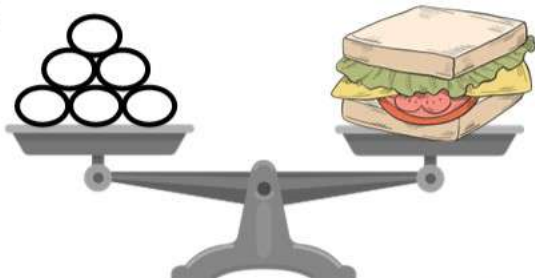
The banana weighs ____ ○ .

2)



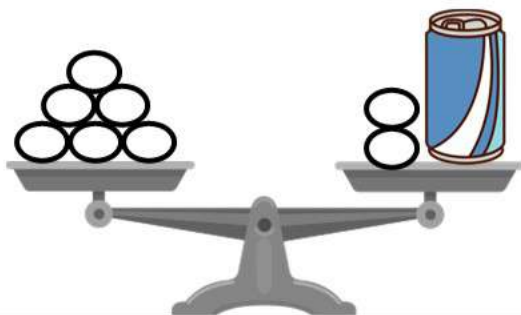
The cake weighs ____ ○ .

3)



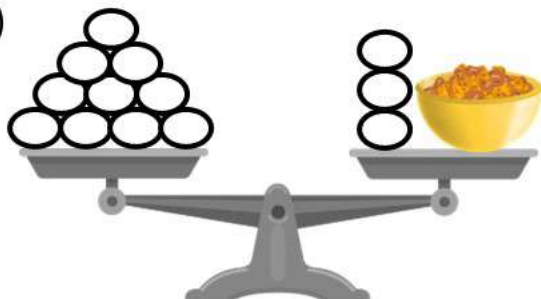
The sandwich weighs ____ ○ .

4)



The can weighs ____ ○ .

5)



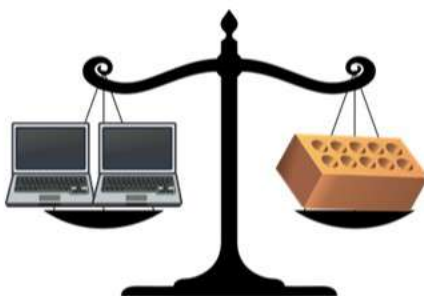
The bowl weighs ____ ○ .

Two – Pan Balance – Comparing Mass

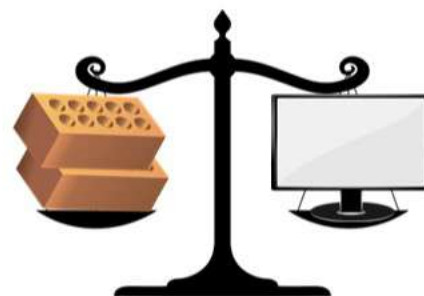
A **two-pan balance** is a tool we can use to find the mass of different objects. When we use a two-pan balance, we can use multiple objects to equal the mass of one object on the other side.



3 books = 1 laptop



2 laptops = 1 brick



2 bricks = 1 TV

Questions

Use the information above to answer the questions

1)



3 books = _____ laptops

6 books = _____ laptops

3)



1 TV = _____ bricks

4)



2 TVs = _____ bricks

5)



6 bricks = _____ TVs

6)



2 bricks = _____ laptops

7)



3 laptops = _____ books

8)



6 laptops = _____ bricks

9)



9 books = _____ laptops

10)



3 TVs = _____ bricks

Using Referents to Measure Mass

Use the referents to help you estimate how much mass the objects below have.

Brick – approximately 1 kg



Book – approximately 500g



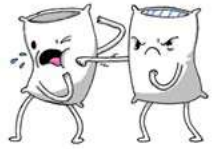
Lollipop – approximately 100g



Paperclip – approximately 1g



Question: Which estimate you think makes the most sense

1) Soccer ball a) 5g b) 1kg c) 10kg d) 10g	2) Water bottle a) 5g b) 1kg c) 10kg d) 500g		
3) Pencil a) 1g b) 1kg c) 10kg d) 10g	4) Car a) 50g b) 1000kg c) 10kg d) 10g		
5) Laptop a) 5g b) 2kg c) 10kg d) 100g	6) Chair a) 10g b) 5kg c) 20kg d) 100g		
7) Chocolate bar a) 50g b) 9kg c) 3kg d) 1g	8) Toothpick a) 1g b) 5kg c) 1kg d) 10g		
9) Shoe a) 50g b) 1kg c) 10kg d) 100g	10) Pillow a) 500g b) 10kg c) 5kg d) 5g		
11) Desk a) 30g b) 1kg c) 10kg d) 100g	12) Candy a) 500g b) 1kg c) 10kg d) 1g		

Estimating Mass

Questions

Circle which mass fits the description

1) A pencil

- a) 500g
- b) 1kg
- c) 5g



2) A computer

- a) 200g
- b) 2kg
- c) 50g



3) A car

- a) 900kg
- b) 100kg
- c) 500g



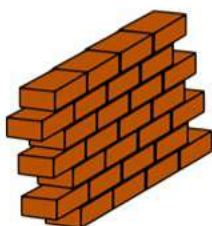
4) A cup

- a) 500kg
- b) 5kg
- c) 50g



5) A brick

- a) 100g
- b) 2kg
- c) 100kg



6) A remote control

- a) 1g
- b) 1kg
- c) 50kg



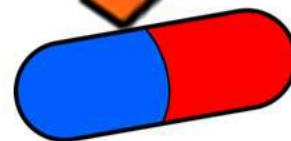
7) An apple

- a) 20kg
- b) 1kg
- c) 100g



8) A pill of medicine

- a) 2kg
- b) 100g
- c) 1g



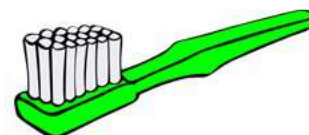
9) A book

- a) 500g
- b) 1g
- c) 5kg



10) A toothbrush

- a) 900g
- b) 20g
- c) 3kg



Measuring Mass - Grams

In Canada, we use the metric system. The metric system has 2 main units that we use to measure the mass of objects.



Gram (g)	Kilogram (kg)
Measure average things	Measure heavy things

Part 1 Use the information above to decide which unit you would use to measure...

1) A basketball	6) A candy
2) A book	7) A pencil
3) A chocolate bar	8) A piece of paper
4) A car	9) A chair
5) A TV	10) A can of pop

Part 2 Write things that you would measure in grams and kilograms below

Grams	
Kilograms	

Measuring Mass - Grams

Gram (g)	Kilogram (kg)
1000g = 1kg	1kg = 1000g



Part 1 Fill in the tables below

g	kg
1000	1
3000	
4000	
	5
6000	
	7
8000	
	9
10000	

g	kg
1500	1.5
2500	
3500	
	4.5
	5.5
6500	
7500	
	8.5
10500	

Part 2 Convert the units of measurement below

1) 1kg	_____ g	4) 5kg	_____ g	7) 4kg	_____ g
2) 2000g	_____ kg	5) 3kg	_____ g	8) 5000g	_____ kg
3) 1.1kg	_____ g	6) 1200g	_____ kg	9) 8.5kg	_____ g

Which Has The Most Mass ?

Part 1

Which measurement has the most mass? Circle it.

1)	10g	200g	100g	1kg
2)	20g	200g	1kg	2000g
3)	5g	500g	1000g	10kg
4)	5000g	5000g	2000g	3kg
5)	5000g	2000g	6kg	

Part 2

Read the problems and answer them below

1. Kyle and Matt weighed their pencils on a scale. Kyle's pencil is 120g and Matt's pencil is 1kg. Whose pencil weighs more?
2. John is deciding which backpack to buy. The blue backpack can hold 5000g and the green backpack can hold 9000g. Which backpack should he buy? He wants the stronger backpack?
3. Mary and Kate had a contest to see who's bridge could support more mass. Mary's bridge held 10 000g and Kate's held 9kg. Who won the contest?



Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

a) Convert the unit of measurement below

- 8.5kg = _____ g.
- 2400g = _____ kg.

b) A box of apples weighs 2kg, and a box of oranges weighs 1,800 grams. Which is heavier?

Name: _____

a) Convert the unit of measurement below

- 8.5kg = _____ g.
- 2400g = _____ kg.

b) A box of apples weighs 2kg, and a box of oranges weighs 1,800 grams. Which is heavier?

Name: _____

a) Convert the unit of measurement below

- 8.5kg = _____ g.
- 2400g = _____ kg.

b) A box of apples weighs 2kg, and a box of oranges weighs 1,800 grams. Which is heavier?

Name: _____

a) Convert the unit of measurement below

- 8.5kg = _____ g.
- 2400g = _____ kg.

b) A box of apples weighs 2kg, and a box of oranges weighs 1,800 grams. Which is heavier?

Does Air Have Mass?

Research Question

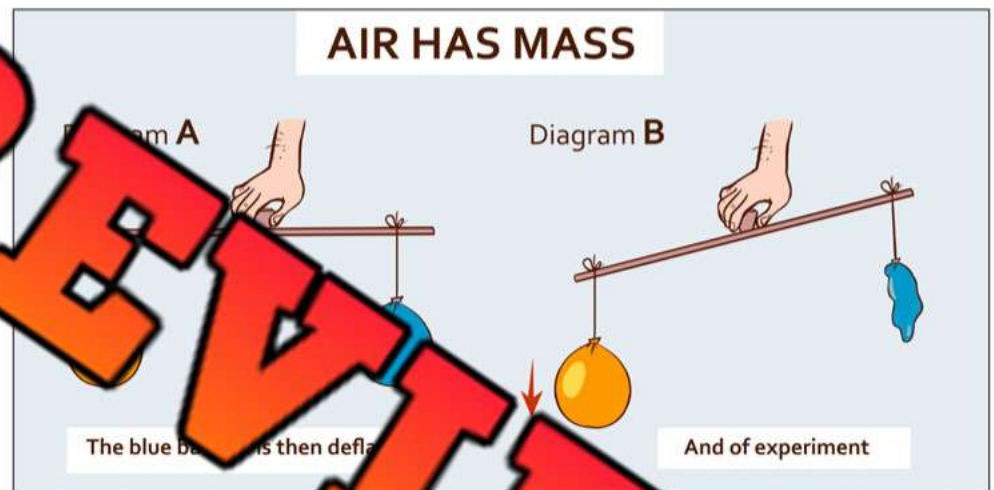
What are we testing?

Does air have any mass?

Materials

What do we need for our experiment?

- 2 balloons
- A metre stick
- String that is about 1 metre long



Procedure

How do we do the experiment?

- 1) Blow up the 2 balloons to the same size.
- 2) Cut two 15-centimeter-long pieces of string
- 3) Attach a balloon to opposite ends of the metre stick using the 15 cm string pieces
- 4) Tie the left-over string around the centre point of the metre stick
- 5) Hold the string up and observe the balloons
- 6) Make a hole in one of the balloons letting the air out
- 7) Observe what happens

Does Air Have Mass?

Hypothesis

What do you think will happen?

**Results**

Answer the questions below



1) Which balloon has more mass?

The Popped Balloon

The Blown-Up Balloon

2) How do you know one balloon has more mass?

3) Draw a diagram of the experiment. Label the popped balloon and the blown-up balloon.

Experiment – Mass Of Solid vs Liquid

Research Question

Liquid or solid? Which weighs more?

If we take an ice cube that was made from 25ml of water, does it have the same/more/less mass than 25ml of water?

Hypothesis

Will the ice have the same or a different mass than the water?

Materials

What do you need for the experiment

1. 25ml of water (or other liquid) to make ice cube
2. 25ml of other liquid (juice, pop, etc.) optional
3. Measuring cup
4. Jug of water
5. Weight scale

Procedure

Instructions – How to complete the experiment

1. Make ice by pouring 25ml of water into ice cube trays. Put tray in the freezer. You could also make ice from other liquids to compare different substances.
2. Once the ice is made, measure it before it melts. Record the mass on the sheet
3. Measure the 25ml of water by putting it in a cup. If you are using a digital scale, use the “tare” button to minus the mass of the cup. If not, you will need to find the mass of the cup separately and subtract it from your total mass. Record your results.
4. Check your hypothesis. Which has more mass? Fill in the questions on the next page.



Experiment - Weight Of Solid vs Liquid

Observations

What is the mass of the ice and water?

State of Matter	Mass - Grams
Solid - Ice Cube	
Water	

Results

Answer Questions

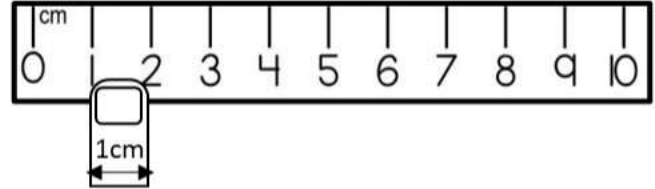
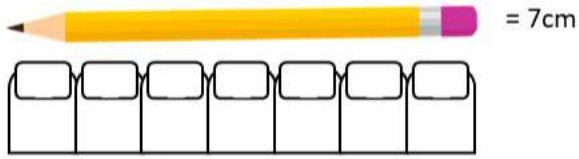
1. Was your hypothesis correct? Explain.

2. Why do you think the solid and the liquid had the same mass?

3. Would other liquids have the same mass if they were in solid form? Explain.

Estimating Lengths – Finger Benchmark

We can estimate the length of something by using our fingertip. Your fingertip is approximately 1 cm wide.



Part 1

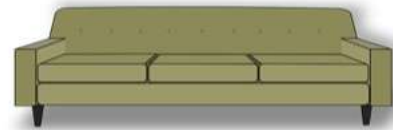
Measure the objects below using your fingertip

1)



Approximately _____ cm

2)



Approximately _____ cm

3)



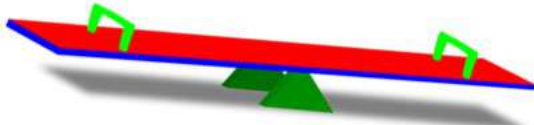
Approximately _____ cm

4)



Approximately _____ cm

5)



Approximately _____ cm

6)



Approximately _____ cm

Part 2

Find objects in your class that you can measure

1) The pencil is

approximately _____ cm

2) The _____ is

approximately _____ cm

3) The _____ is

approximately _____ cm

4) The _____ is

approximately _____ cm

5) The _____ is

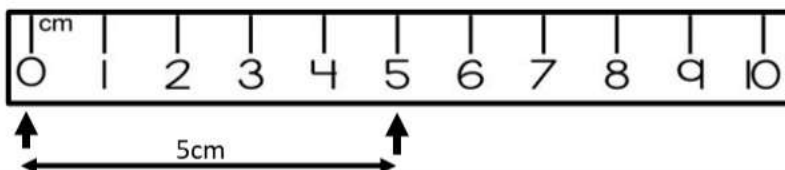
approximately _____ cm

6) The _____ is

approximately _____ cm

Measuring in Centimeters

We can accurately measure the length of something by using a ruler.



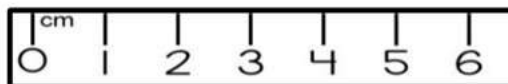
Questions

Read the rulers below to find the distance between the arrows

1)



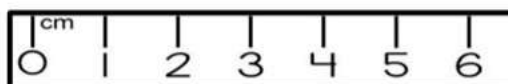
2)



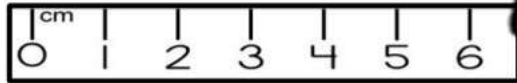
3)



4)



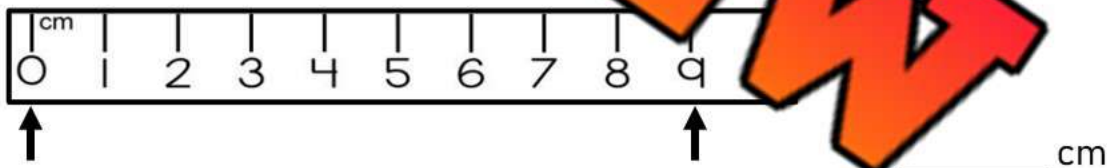
5)



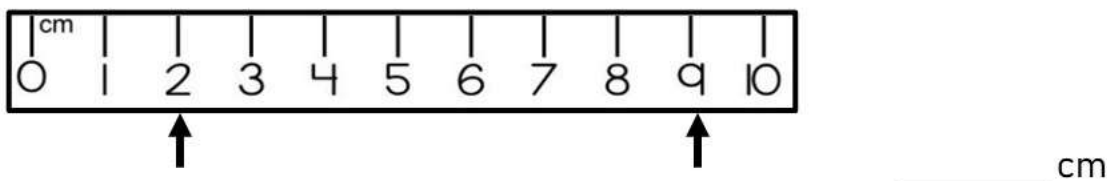
6)



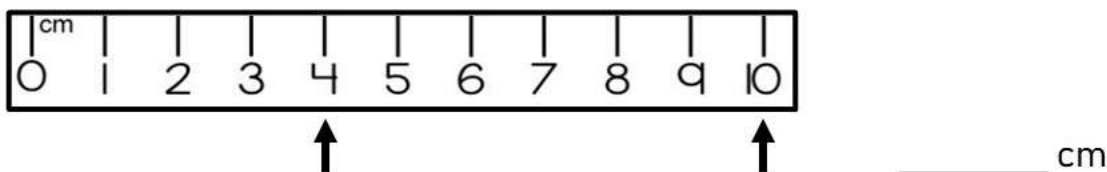
7)



8)



9)



Name: _____

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Curriculum Connection
SS3.3

Measuring in Centimeters

Questions

Use a ruler to measure the lines below



1)



_____ cm

2)



_____ cm

3)



4)



_____ cm

5)



_____ cm

6)



_____ cm

7)



_____ cm

8)



9)



_____ cm

10)



_____ cm

11)



_____ cm

12)



_____ cm

Drawing Lengths Using a Ruler

Questions

Draw lines that are the lengths below



1)

5 cm

2)

6 cm

3)

9 cm

5)

4 cm7 cm

7)

1 cm

8)

8 cm

9)

2 cm

10)

10 cm

11)

14 cm

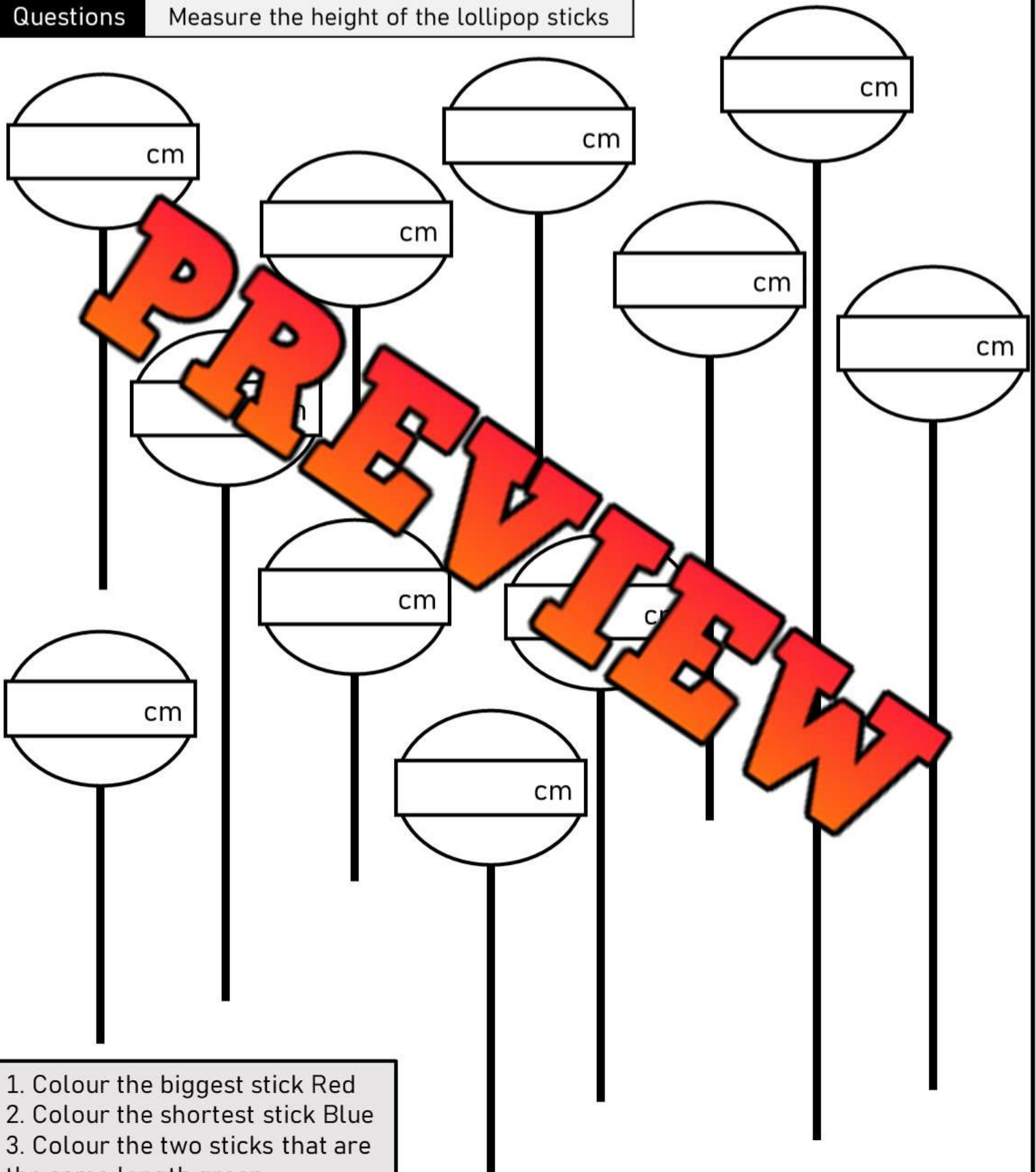
12)

17 cm

Measuring Height – Lollipops

Questions

Measure the height of the lollipop sticks



1. Colour the biggest stick Red
2. Colour the shortest stick Blue
3. Colour the two sticks that are the same length green

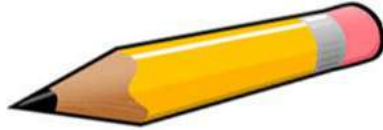
Estimating Length in CM

Questions

Circle which length fits the description

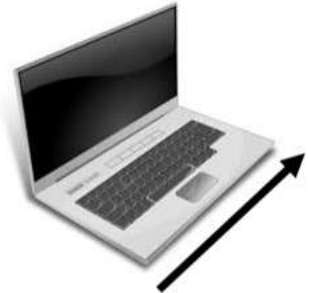
1) A pencil

- a) 5cm
- b) 15cm
- c) 50cm
- d) 100cm



2) A computer

- a) 5cm
- b) 10cm
- c) 40cm
- d) 100cm



3) A

- a) 50cm
- b) 100cm
- c) 500cm
- d) 900cm



4) A cup

- a) 3cm
- b) 10cm
- c) 50cm
- d) 100cm



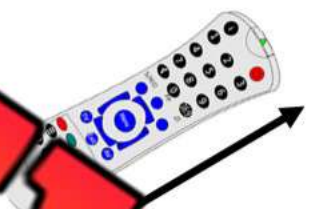
5) A bottle

- a) 3cm
- b) 30cm
- c) 100cm
- d) 300cm



6) A remote control

- a) 5cm
- b) 10cm
- c) 100cm
- d) 500cm



7) An apple

- a) 1cm
- b) 30cm
- c) 10cm
- d) 100cm



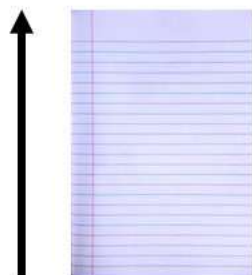
8) A paper clip

- a) 5cm
- b) 50cm
- c) 100cm
- d) 200cm



9) Piece of paper

- a) 5cm
- b) 15cm
- c) 30cm
- d) 100cm



10) A shoe

- a) 5cm
- b) 15cm
- c) 50cm
- d) 200cm



Name: _____

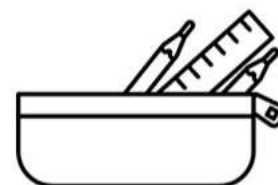
98

Curriculum Connection
SS3.3

Measuring Length in CM

Directions

Use a ruler to measure the following things



Objects to Measure	Length in CM
1) The length of this paper	
2) The length of your foot/shoe	
3) The length of your hand (from thumb to pinky)	
4) The length of your pencil	
5) The length of a marker	
6) The length of a paperclip	
7) The length of an eraser	
8) The height of a water bottle	
9) The length and width of a book	Length = Width =
10) The width of your desk or table	

Metric System – Meters and Centimeters

In Canada, we use the metric system. We use centimetres for smaller measurements and metres for larger measurements.



Centimetre (cm)

Approximately the
width of your finger



Metre (m)

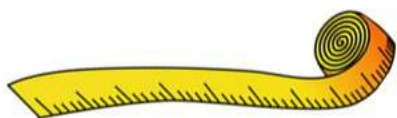
Approximately the width
of a door

Question: What unit of measure would you use to measure the following distances?

1) The distance from the classroom to the bathroom 	
2) The length of your nose 	
3) The length of your eraser 	
4) The length of your classroom 	
5) The distance around a track 	
6) The distance of a 10 second race 	
7) The length of your shoe 	
8) The width your fingernail 	
9) The height of the classroom door 	
10) The length of your school 	

Meters and Centimeters

In Canada, we use the metric system. Two common units of measurement are metres and centimetres.



BENCHMARKS

$$100\text{cm} = 1\text{m}$$

$$1\text{m} = 100\text{cm}$$



Part 1 Fill in the table below

10	
300	
400	
	5
600	
	7
800	
	9
1000	

Part 2 Convert the units of measurement below

1) 1m	_____cm
2) 5m	_____cm
3) 200cm	_____m
4) _____m	_____cm
5) _____cm	_____m
6) 800 _____	_____m
7) 4m	_____cm

Part 3 Which unit would you use to measure the things below

 CM M	 CM M	 CM M	 CM M
 CM M	 CM M	 CM M	 CM M

Estimating Length in Meters

Questions

Circle which length fits the description

1) A pool

- a) 1m
- b) 2m
- c) 10m
- d) 100m



2) A basketball player

- a) 1m
- b) 2m
- c) 10m
- d) 100m



3) A car

- a) 1m
- b) 2m
- c) 5m
- d) 100m



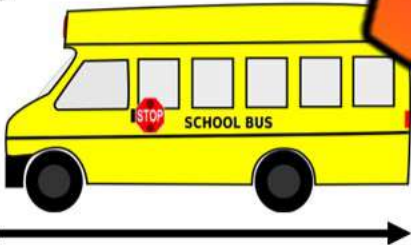
4) A school

- a) 1m
- b) 10m
- c) 100m
- d) 500m



5) A school bus

- a) 1m
- b) 2m
- c) 10m
- d) 100m



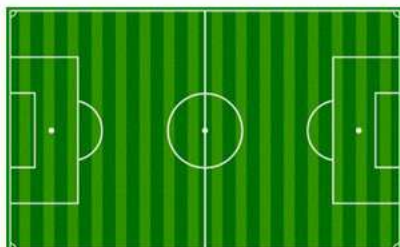
6) A house

- a) 1m
- b) 2m
- c) 10m
- d) 500m



7) A soccer field

- a) 5m
- b) 10m
- c) 20m
- d) 100m



8) A basketball net

- a) 1m
- b) 4m
- c) 50m
- d) 100m



9) A hot tub

- a) 2m
- b) 10m
- c) 50m
- d) 100m



10) A stop sign

- a) 1m
- b) 2m
- c) 10m
- d) 100m



Which is Longer

Part 1 Which distance is farther? Circle the longest distance.

1)	10m	200cm	500cm	7m
2)	20cm	200cm	5m	500m
3)	50cm	500cm	10m	50cm
4)	2m	300cm	1m	
5)	500cm	200cm	3m	

Part 2 Read the problem and solve it below

- Steve is trying to buy a long baseball bat. One bat is 98cm long and the other is 1m long. Which bat is longer?
- Bella is 1 metre tall. Emily is 125cm tall. Who is taller? Explain.
- Kyle and Simon are arguing over whose wingspan is longer. Kyle's wingspan is 525cm wide. Simon's wingspan is 6m wide. Whose wingspan is wider?



Name: _____

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Curriculum Connection
SS3.3

Measuring Rectangles - Side Lengths

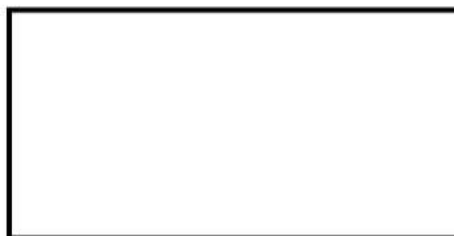
Questions

Label the side lengths in centimeters (cm)

1)



2)



3)



4)



5)



6)



PREVIEW

Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

a) Convert the unit of measurement below

- 7 m = _____ cm
- 900cm = _____ m

b) Paul is comparing two desks; one is 120cm long and the other is 1.1 meters long. Which desk is longer?

Name: _____

a) Convert the unit of measurement below

- 7 m = _____ cm
- 900cm = _____ m

b) Paul is comparing two desks; one is 120cm long and the other is 1.1 meters long. Which desk is longer?

Name: _____

a) Convert the unit of measurement below

- 7 m = _____ cm
- 900cm = _____ m

b) Paul is comparing two desks; one is 120cm long and the other is 1.1 meters long. Which desk is longer?

Name: _____

a) Convert the unit of measurement below

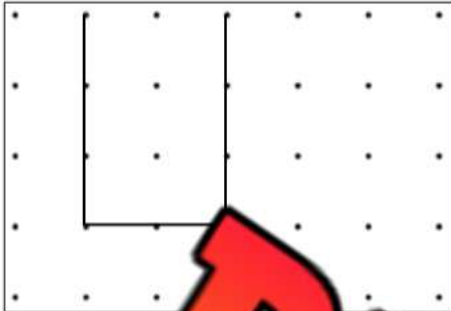
- 7 m = _____ cm
- 900cm = _____ m

b) Paul is comparing two desks; one is 120cm long and the other is 1.1 meters long. Which desk is longer?

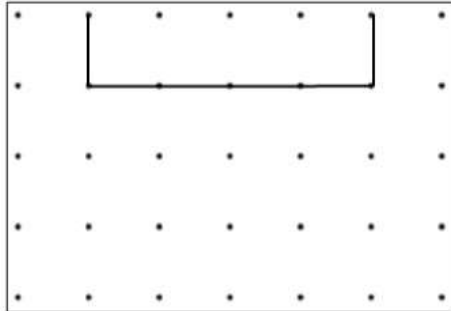
Finding the Perimeter of Irregular Shapes

Part 1

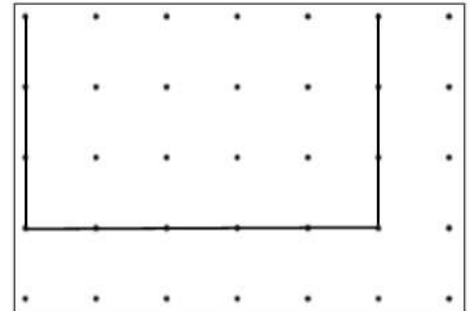
Find the perimeter of the rectangles below



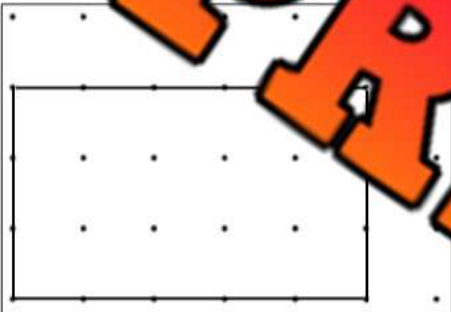
1) Perimeter = _____



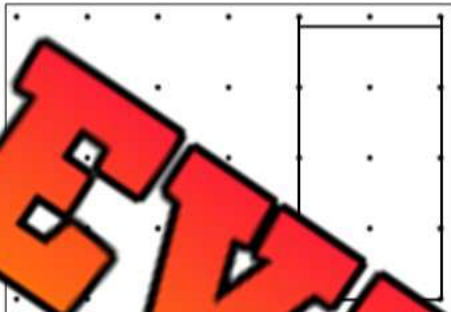
2) Perimeter = _____



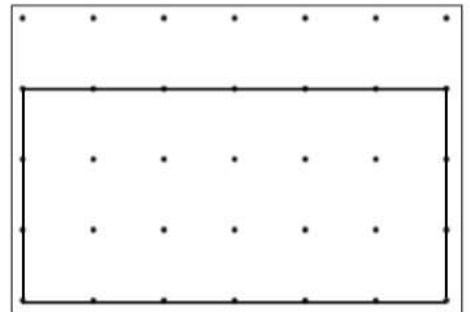
3) Perimeter = _____



4) Perimeter = _____



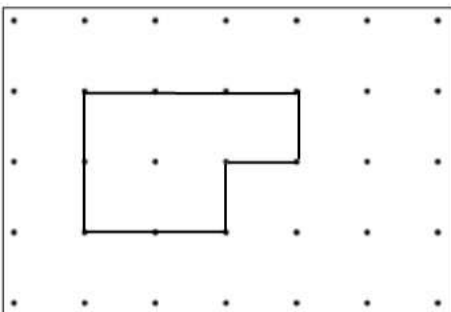
5) Perimeter = _____



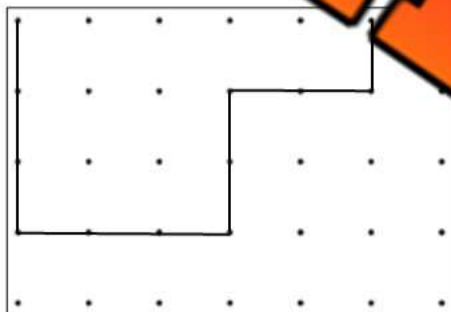
6) Perimeter = _____

Part 2

Find the perimeter of the polygons below



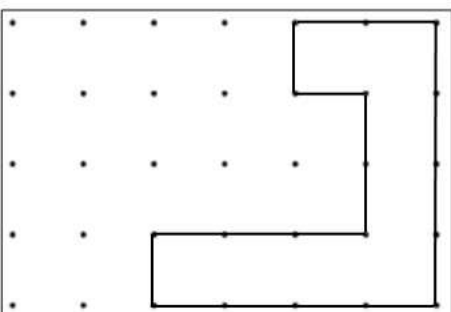
1) Perimeter = _____



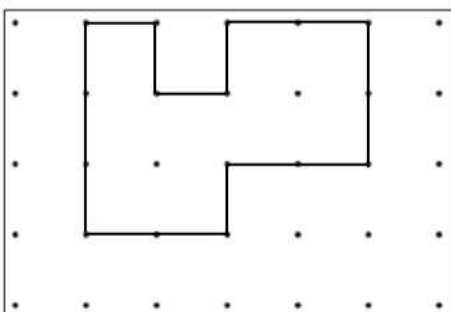
2) Perimeter = _____



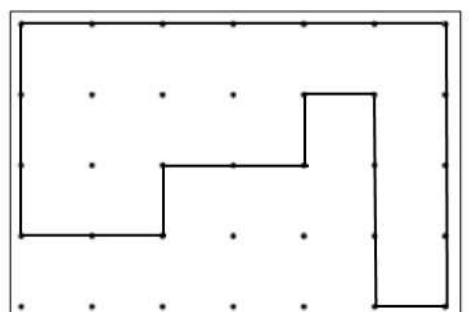
3) Perimeter = _____



4) Perimeter = _____



5) Perimeter = _____



6) Perimeter = _____

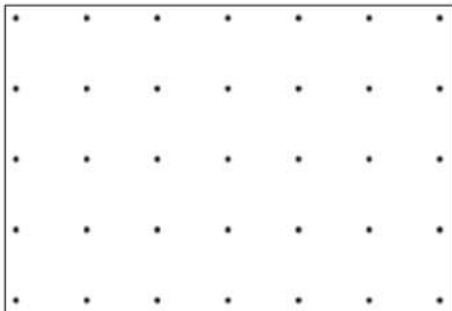
Drawing Shapes Using Perimeter

Part 1

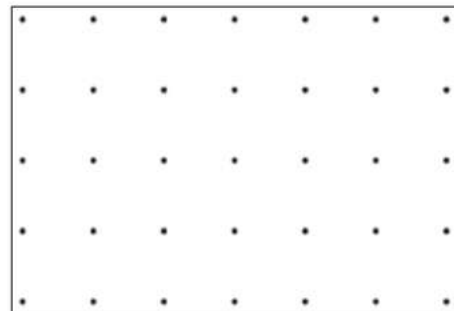
Draw a square with the perimeter that is given to you



1) Perimeter = 10



2) Perimeter = 4



3) Perimeter = 12

Part 2

Draw a rectangle with the perimeter that is given to you



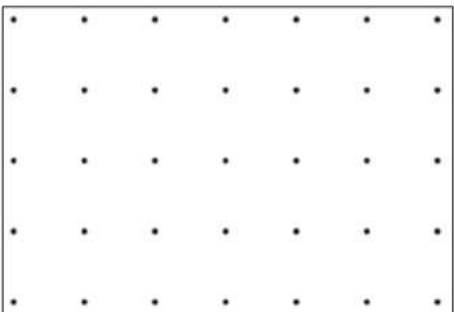
4) Perimeter = 6



5) Perimeter = 10



6) Perimeter = 16



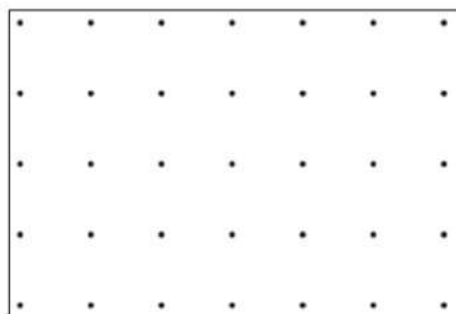
7) Perimeter = 8



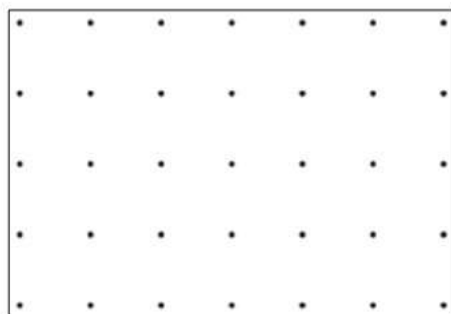
8) Perimeter = 14



9) Perimeter = 18



10) Perimeter = 20



11) Perimeter = 12

Calculating Perimeter

Questions

Find the perimeter of the shapes below

*** not to scale

1)

3cm

4cm

Perimeter = _____ cm

2)

30m

20m

Perimeter = _____ m

3)

6cm

Perimeter = _____

4)

7cm

3cm

Perimeter = _____ cm

5)

50m

20m

Perimeter = _____ m

6)

4cm

2cm

Perimeter = _____ cm

7)

90m

50m

Perimeter = _____ m

8)

4cm

Perimeter = _____ cm

9)

20m

100m

Perimeter = _____ m

10)

3cm

5cm

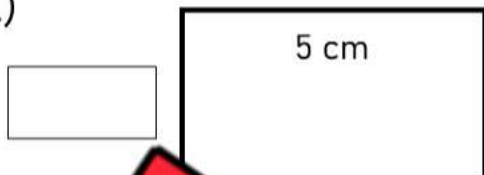
Perimeter = _____ cm

Calculating Perimeter of Unknown Side

Questions

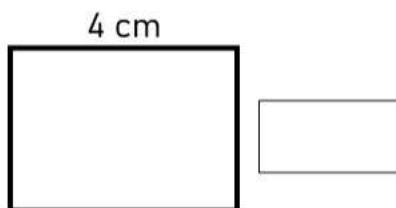
Use the perimeter and given lengths to find the unknown side

1)



Perimeter = 16 cm

2)



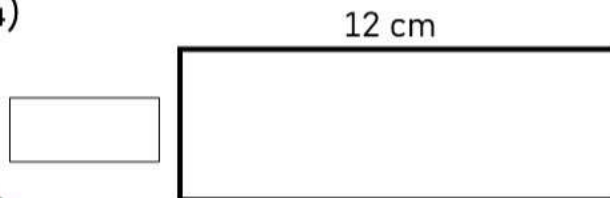
Perimeter = 12 cm

3)



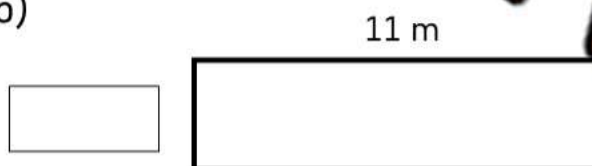
Perimeter = 22 cm

4)



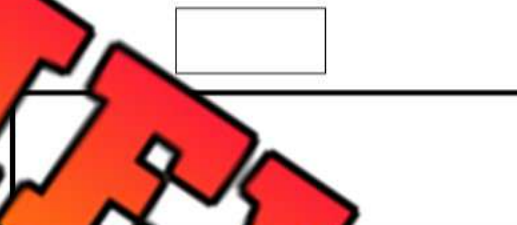
Perimeter = 32 cm

5)



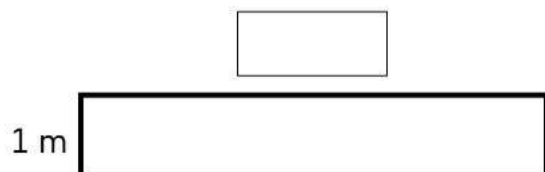
Perimeter = 26 m

6)



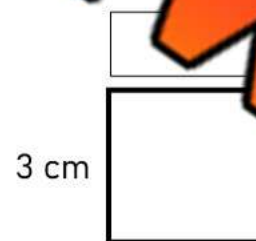
Perimeter = 30 m

7)



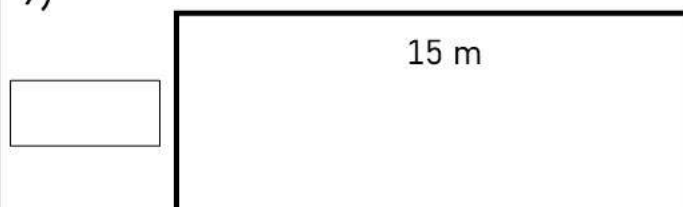
Perimeter = 22 m

8)



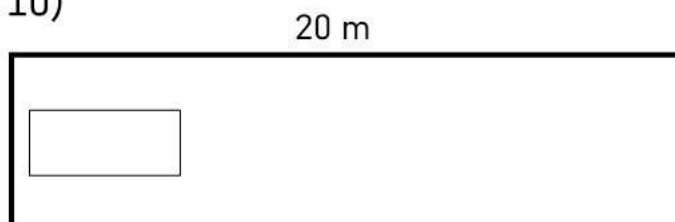
Perimeter = 12 cm

9)



Perimeter = 40 m

10)



Perimeter = 50 m

Drawing Shapes Using Perimeter

Questions

Draw a shape (square, rectangle, or triangle) using the perimeter given

1)

2)

Perimeter= 12 cm

3)

4)

Perimeter= 16 cmPerimeter= 20 cm

5)

6)

Perimeter= 10 cmPerimeter= 6 cm

7)

8)

Perimeter= 22 cmPerimeter= 18 cm

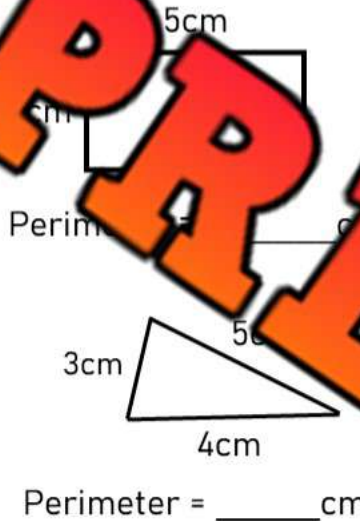
Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

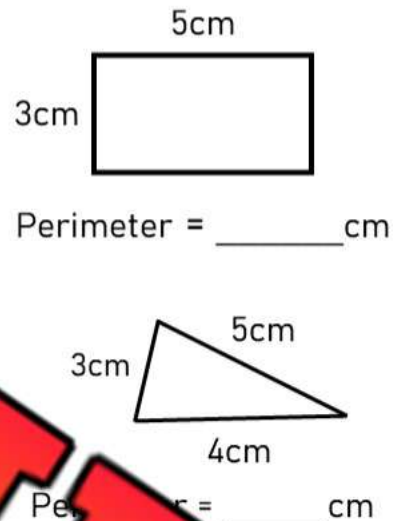
Name: _____

Find the perimeter of the shapes below.



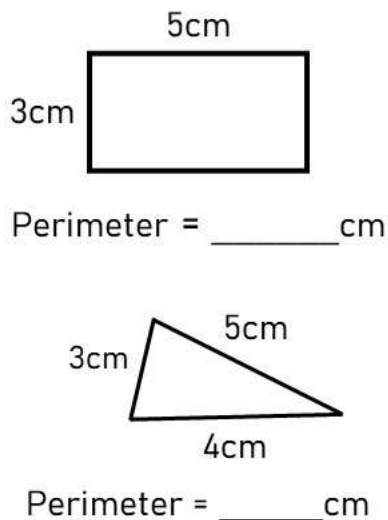
Name: _____

Find the perimeter of the shapes below.



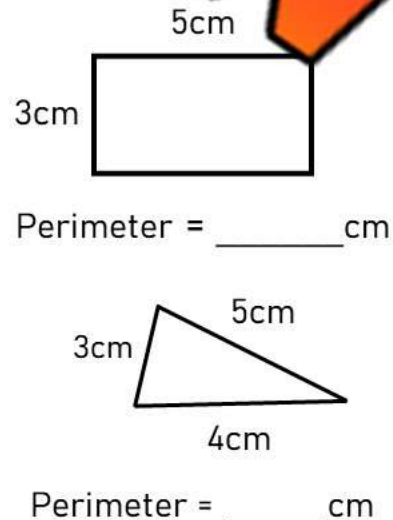
Name: _____

Find the perimeter of the shapes below.



Name: _____

Find the perimeter of the shapes below.



Name: _____

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Curriculum Connection
TQ

Measurement Unit Test

Part 1

Use a ruler to measure the lines below

1)



_____ cm

2)



_____ cm

3)



_____ cm

Part 2

Draw a line that is the correct length

1)

5 cm

2)

3 cm

3)

4 cm

Part 3

Fill in the table below

cm	m
100	
300	3
400	
	5
600	
	7
800	
	9
1000	

Part 4

Convert the units below

1) 1m

_____ cm

2) 5m

_____ cm

3) 500cm

_____ m

Part 5

Find the perimeter

1)

6m



3m

Perimeter: _____

2)

10m



4m

Perimeter: _____

3)

3m

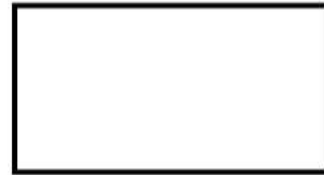


3m

Perimeter: _____

4)

10m



2m

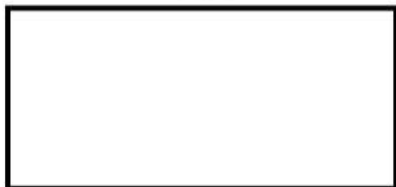
Perimeter: _____

Part 6

Use the perimeter to find the unknown side length

1)

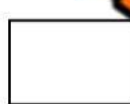
6 m



Perimeter: 16 m

2)

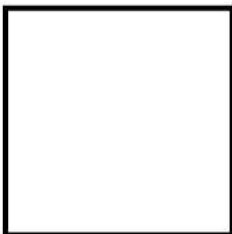
12



Perimeter: 30 m

3)

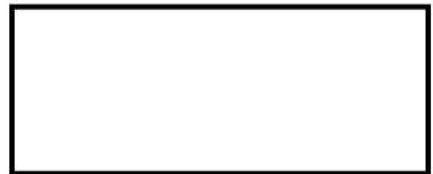
8cm



Perimeter: 32 cm

4)

15 cm

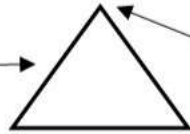


Perimeter: 40 cm

Sides and Vertices

Reminder:

Side →



Vertices

Part 1

How many sides and vertices does the shape have?

1.	2.	3.	4.	5.
_____ sides	_____ sides	_____ sides	_____ sides	_____ sides
_____ vertices	_____ vertices	_____ vertices	_____ vertices	_____ vertices
6.	7.	8.	10.	
_____ sides	_____ sides	_____ sides	_____ sides	_____ sides
_____ vertices	_____ vertices	_____ vertices	_____ vertices	_____ vertices

Part 2

Draw a shape with the correct number of vertices and sides

1.	2.	3.	4.	5.
3 sides	4 sides	5 sides	6 sides	7 sides
3 vertices	4 vertices	5 vertices	6 vertices	7 vertices

Sorting Sides and Vertices

Part 1

Sort the shapes into the categories below



Shapes	Triangles	Quadrilaterals	Pentagons	Hexagons
Letters				

Part 2

Sort the irregular shapes into the following categories



Sides	7	8	9	10
Letters				

Part 3

Draw irregular shapes below with the correct number of sides

Drawings				
Sides	7	8	9	10

Name: _____

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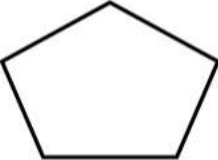
Curriculum Connection
SS3.5

Naming Shapes

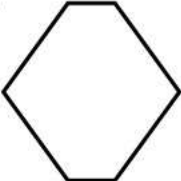
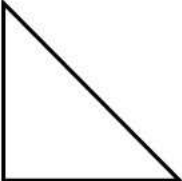
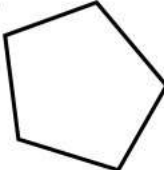
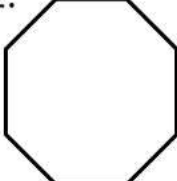
Questions

Fill in the blanks below

Word Bank - Hexagon Pentagon Triangle Quadrilateral Octagons

	1. 	2. 	3. 	4. 
# of Sides	_____ sides	_____ sides	_____ sides	_____ sides
Name of Shape				

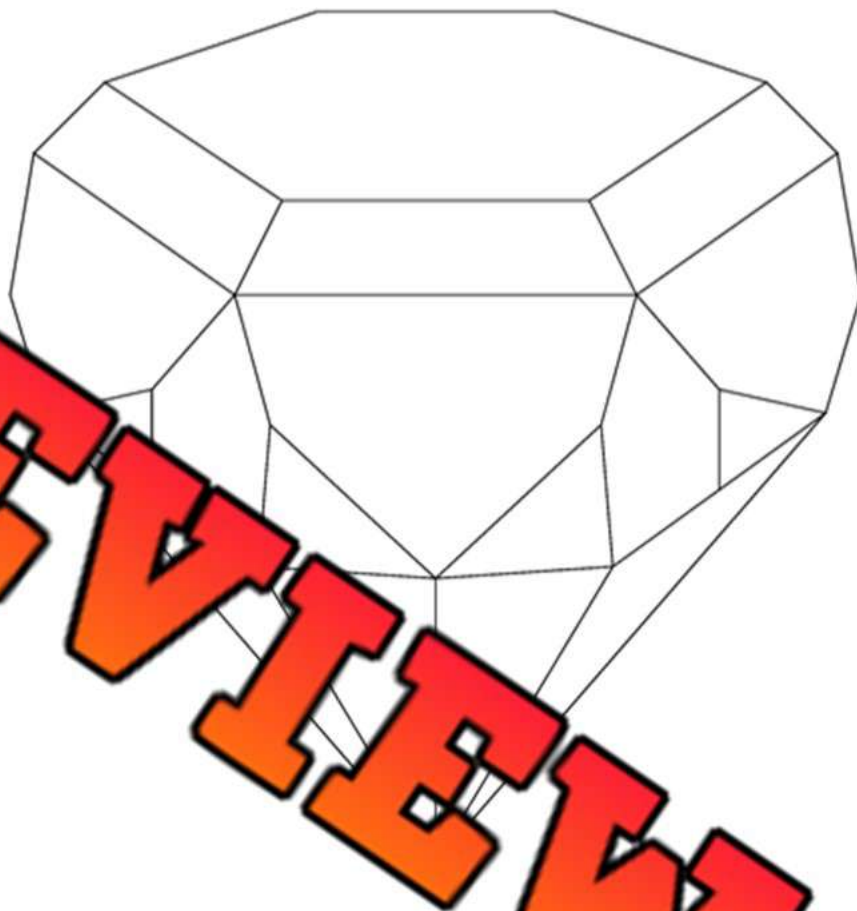
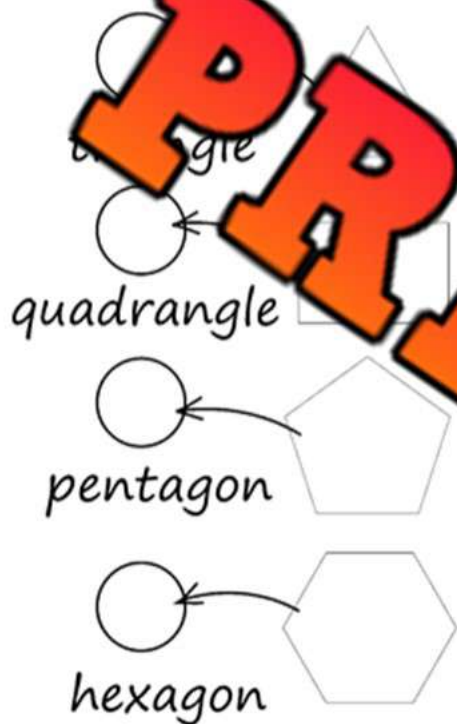
	5. 	6. 	8. 
# of Sides	_____ sides	_____ sides	_____ sides
Name of Shape			

	9. 	10. 	11. 	12. 
# of Sides	_____ sides	_____ sides	_____ sides	_____ sides
Name of Shape				

Drawing Using Shapes

Directions

How many of each shape can you find? Then colour the diamond.

**HOW
MANY?****Directions**

Draw your own diamond that uses each of the shapes.

Diamond	Shapes	
	Triangles	
	Quadrilateral	
	Pentagon	
	Hexagon	
	Octagon	

Drawing Using Shapes

Directions

Colour the shapes below



Colour the shapes the colours below

Circles	Yellow	Pentagons	Green
Triangles	Orange	Hexagons	Blue
Quadrilaterals	Purple	Octagons	Red



Name: _____

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Curriculum Connection
SS3.5

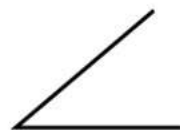
Naming Angles



= larger than
a right angle



= right angle

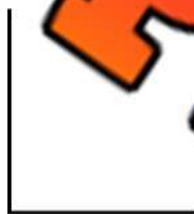


= smaller than
a right angle

Questions

Label the angles in comparison to a right angle – larger, smaller, right angle

1)

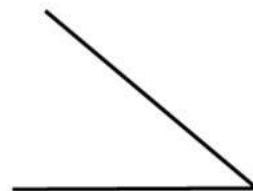


2)

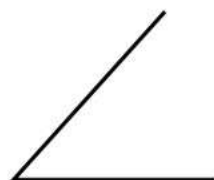


3)

4)



5)



6)

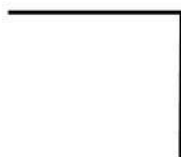


7)

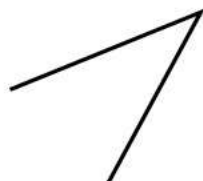
8)



9)



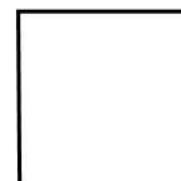
10)



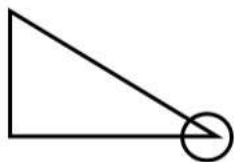
11)



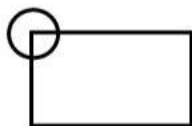
12)



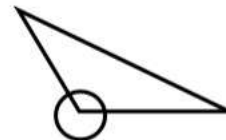
Naming Angles in Shapes



= smaller than
a right angle



= right angle



= larger than
a right angle

Part 1 Draw the angle that is circled. Then label it larger, smaller, or a right angle

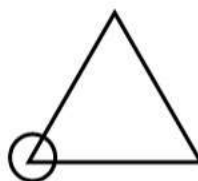
1)



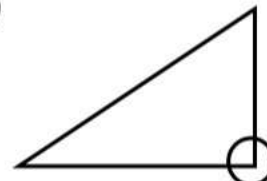
2)



3)

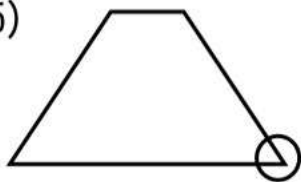


4)

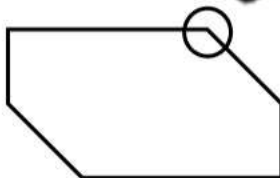


Right Angle

5)



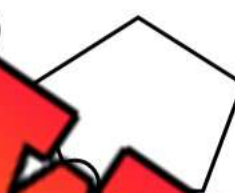
6)



7)



8)



Part 2 Circle the angles below on the shapes

9)



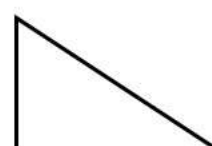
Smaller than a right angle

10)



Larger than a right angle

11)

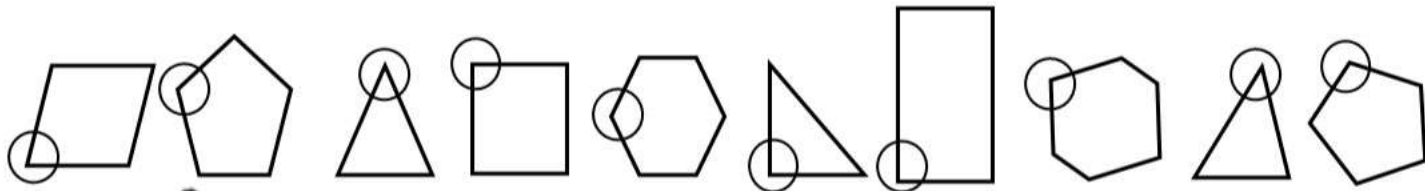


A right angle

Sorting Angles

Part 1

Sort the angles into the categories below



A

C

D

E

F

G

H

I

J

Angles	Right Angle	Larger Than A Right Angle	Smaller Than A Right Angle
Letters			

Part 2

Sort the angles into the categories below



A

B

C

D

G

H

Angles	Right Angle	Larger Than A Right Angle	Smaller Than A Right Angle
Letters			

Part 3

Circle the angles below

Drawings			
Angles	Right Angle	Larger than a right angle	Smaller than a right angle

Name: _____

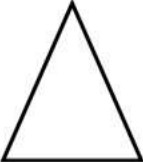
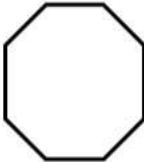
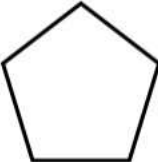
146

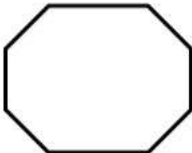
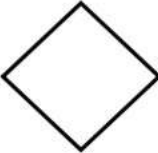
Curriculum Connection
TQ

Geometry Test

Part 1

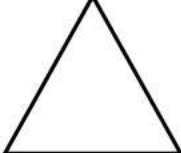
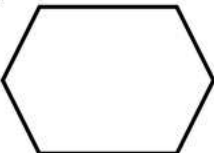
How many sides does the shape have? What is the name of the shape?

1.		2.		3.		4.	
Sides							
Name							

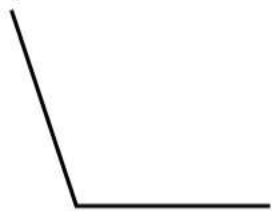
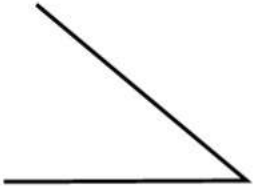
5.		6.		7.		8.	
Sides							
Name							

Part 2

Circle the vertices and write how many vertices the shape has.

1.		2.		3.		4.		5.	

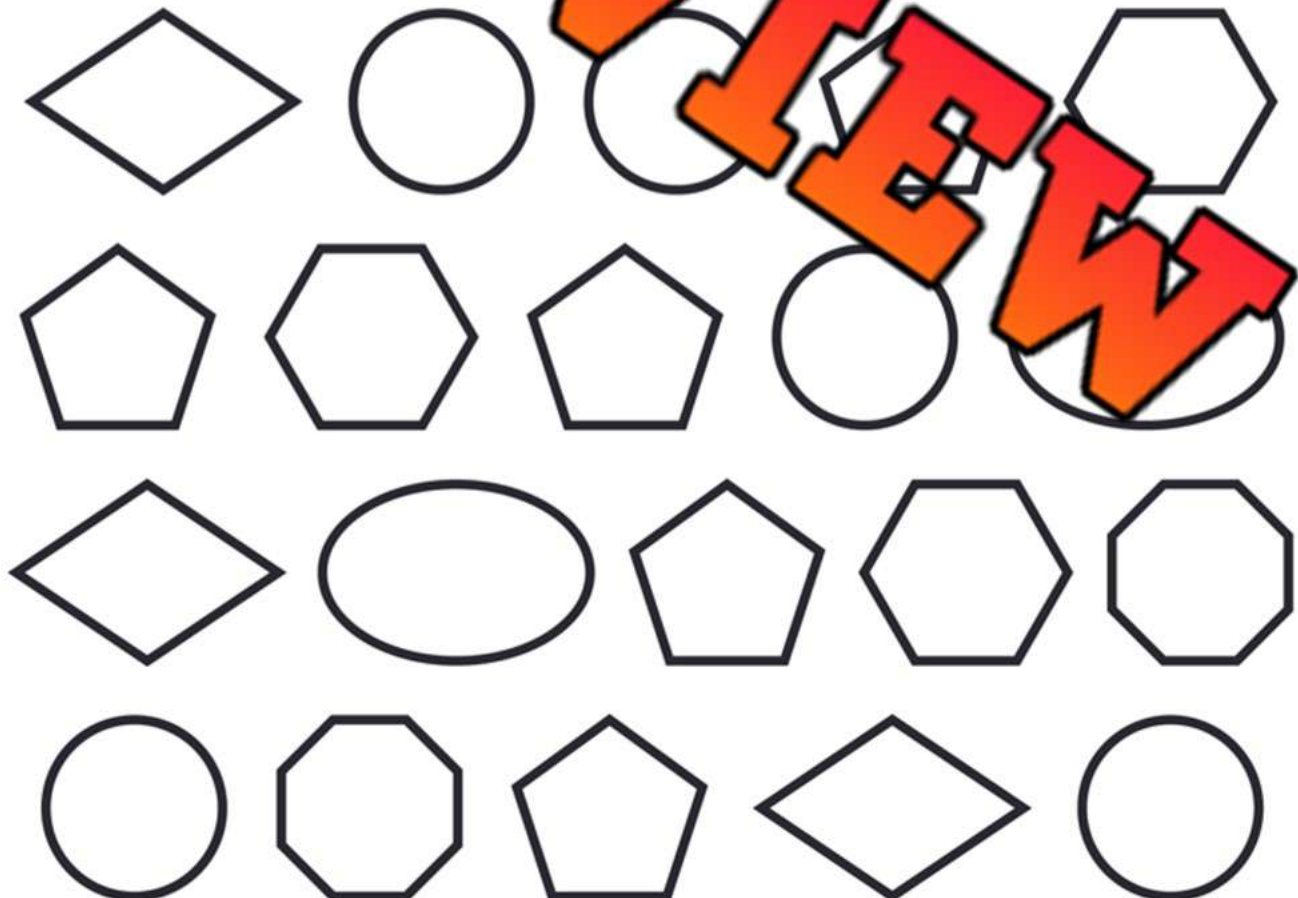
Part 3 Label the angles in comparison to a right angle – larger, smaller, right angle

1) 	2) 	3) 	4) 

Part 4 How many of each shapes can you find? Then colour the diamond.

Colour the shapes below

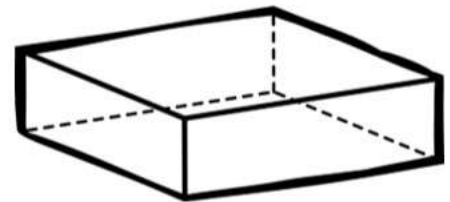
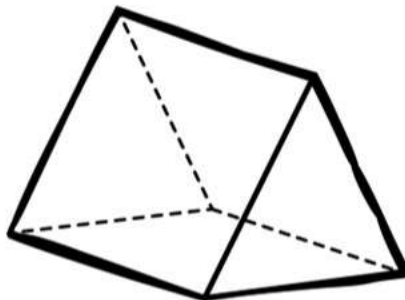
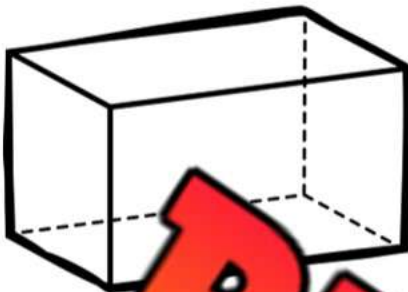
Circles	Pentagons	Green
Triangles	Hexagons	Blue
Quadrilaterals	Octagons	Red



Prisms – Faces, Edges, Vertices

Questions

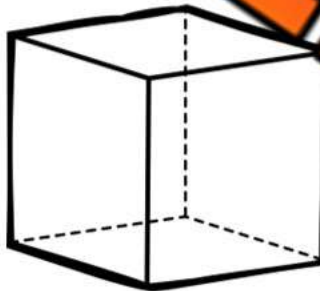
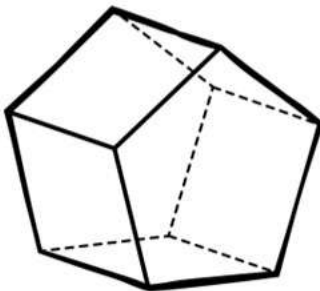
Fill in the tables below based on the prisms



Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	



Faces	
Edges	
Vertices	
Name	

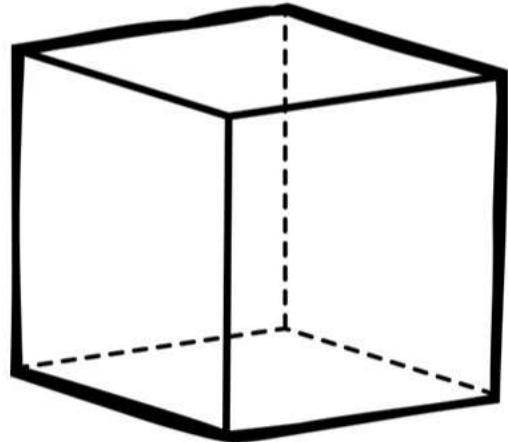
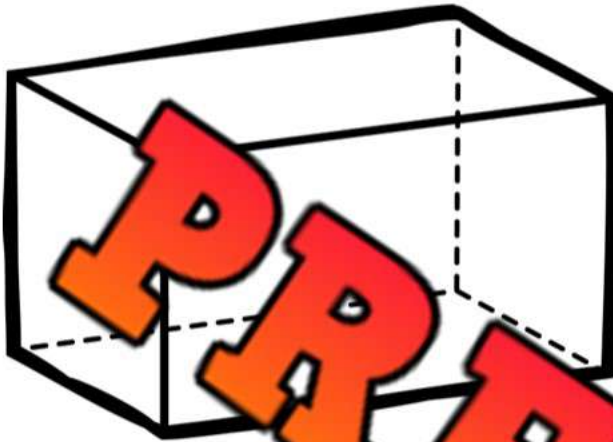
Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	

3D Objects – Cube vs Rectangular Prism

Questions

How is a cube similar and different from a rectangular prism?

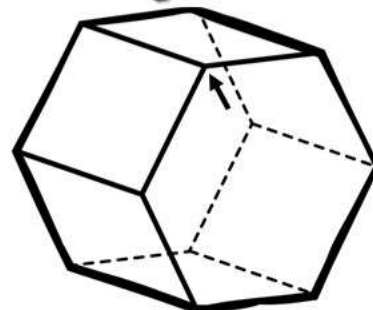
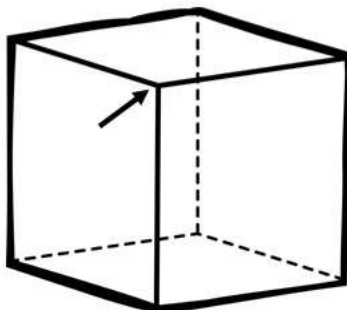
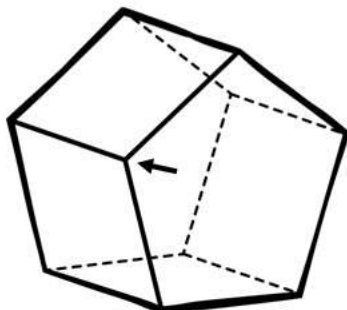
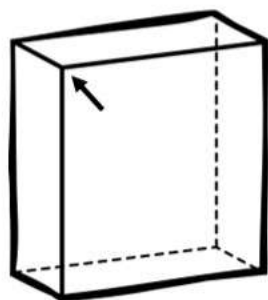
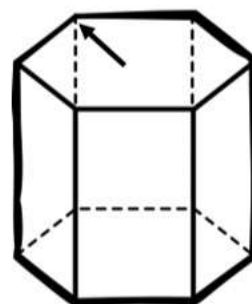
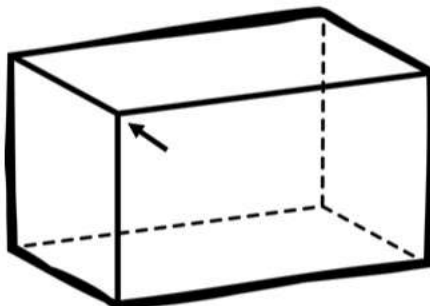
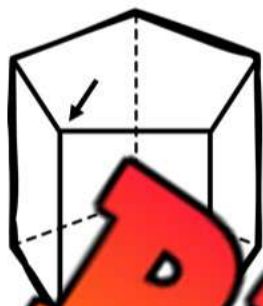


Ideas	Edge, Vertices, 2D Shapes
Similarities	
Differences	

Angles in 3D Objects - Prisms

Questions

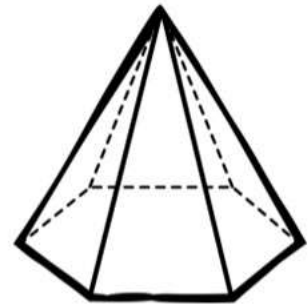
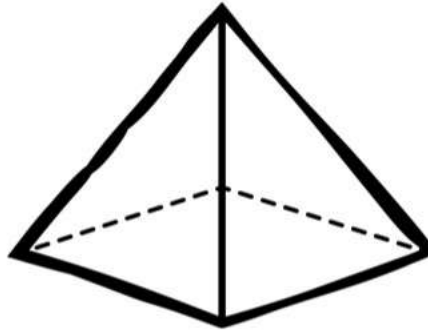
Are the angles right angles, or larger or smaller than right angles?



Faces, Edges, and Vertices

Questions

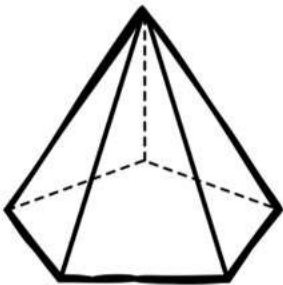
Fill in the tables below based on the 3D shapes below



Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	



Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	

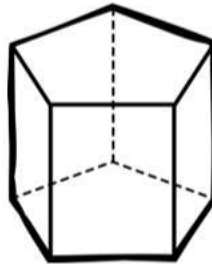
Prism, Cone, or Pyramid ?

Questions

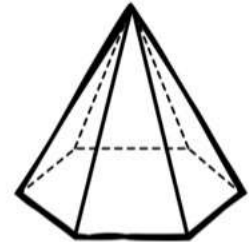
Is the shape a prism, cone or pyramid?



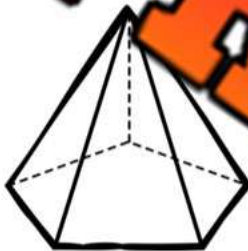
Prism Cone Pyramid



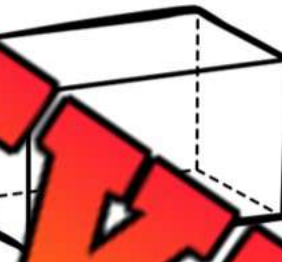
Prism Cone Pyramid



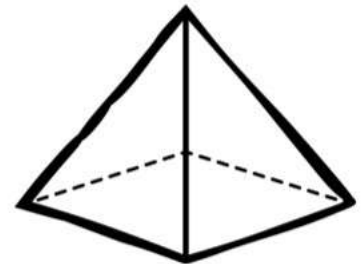
Prism Cone Pyramid



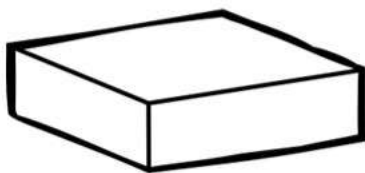
Prism Cone Pyramid



Prism Cone Pyramid



Prism Cone Pyramid



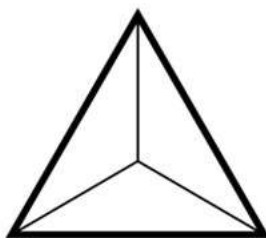
Prism Cone Pyramid



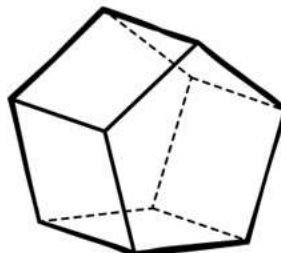
Prism Cone Pyramid



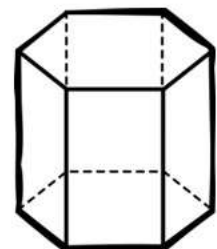
Prism Cone Pyramid



Prism Cone Pyramid



Prism Cone Pyramid



Prism Cone Pyramid

Name: _____

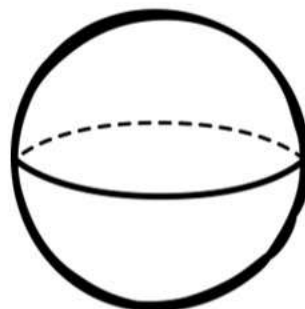
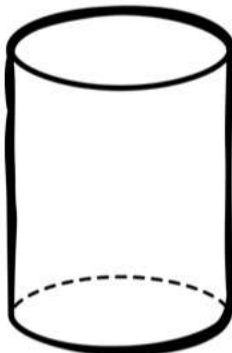
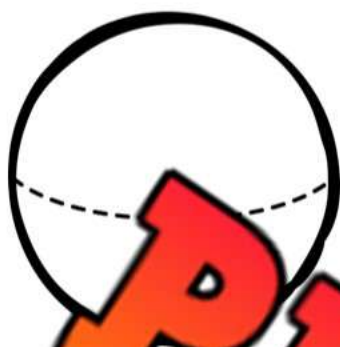
155

Curriculum Connection
SS3.4

Cone, Cylinder or Sphere

Questions

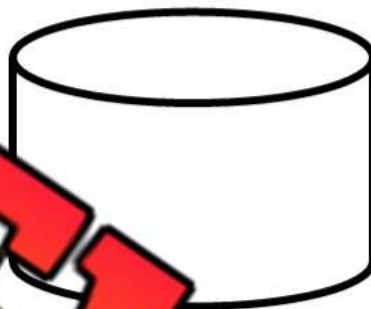
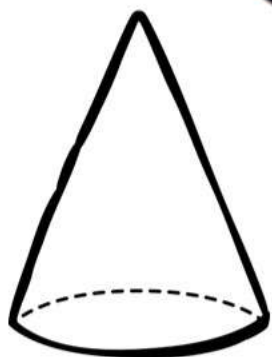
Is the 3D object a Cone, Cylinder, or Sphere?



Cone Cylinder Sphere

Cylinder Sphere

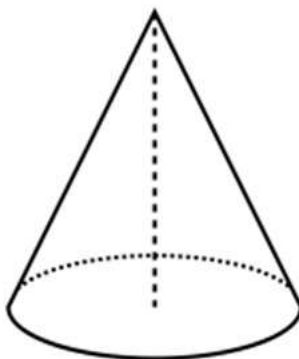
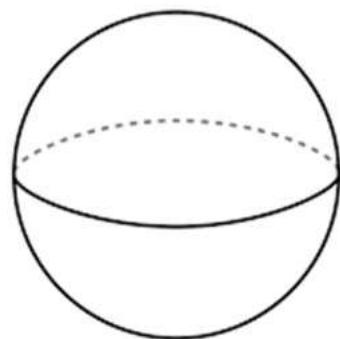
Cone Cylinder Sphere



Cone Cylinder Sphere

Cone Cylinder Sphere

Cone Cylinder Sphere



Cone Cylinder Sphere

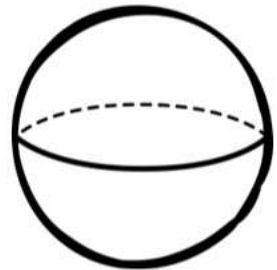
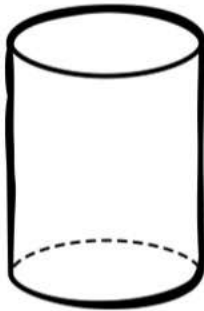
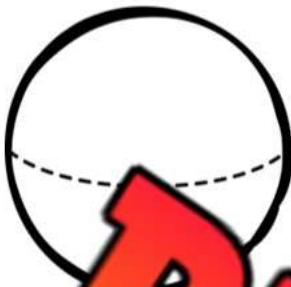
Cone Cylinder Sphere

Cone Cylinder Sphere

3D Objects – Faces, Edges, Vertices

Questions

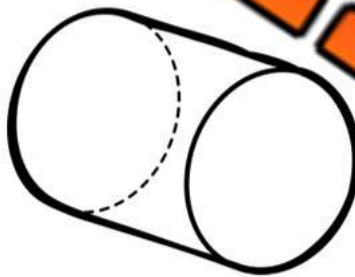
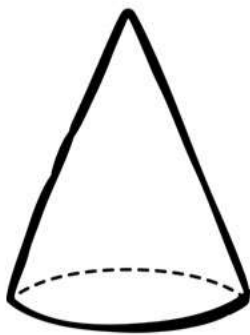
Fill in the tables below



Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	



Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	

Faces	
Edges	
Vertices	
Name	

Sorting 3D Objects - Prisms and Pyramids

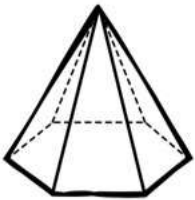
Prism

Pyramid

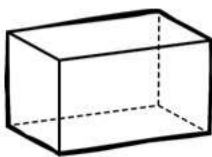
PREVIEW

Questions

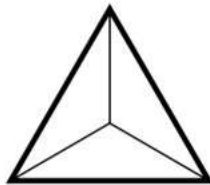
Write the letter below each shape in the correct category



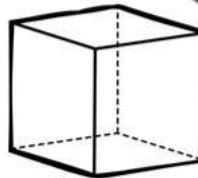
A



B



C



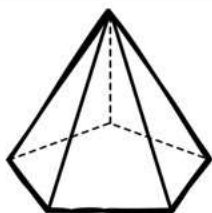
D



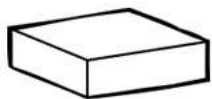
E



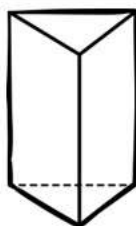
F



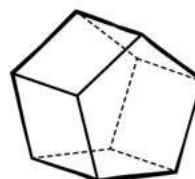
G



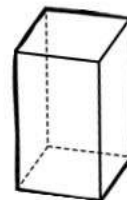
H



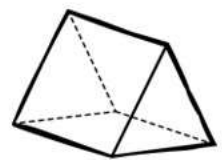
I



J



K



L

Activity Title: Geometric Builders

Objective

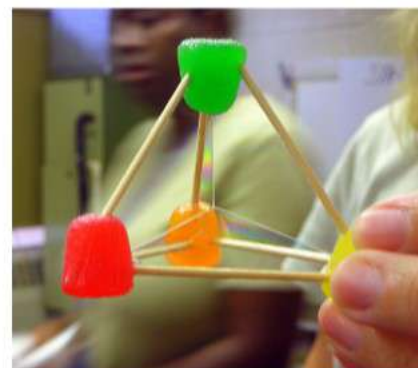
What are we learning about?

To help students understand the structure and properties of different 3D geometric shapes by creating them using toothpicks and marshmallows.

Materials

What you will need for the activity.

- Toothpicks
- Marshmallows (colored)
- Worksheet with diagrams of 3D shapes
- Colored markers
- Paper for sketching.



Instructions

How you will complete the activity.

- 1) Explain the basic elements of 3D shapes: edges, vertices, and faces.
- 2) Show the students examples of 3D shapes like cubes, tetrahedrons, and pyramids on the worksheet.
- 3) Distribute toothpicks and marshmallows to the students.
- 4) Guide the students to connect the toothpicks with marshmallows to form vertices and edges of the shapes illustrated on their worksheets.
- 5) Encourage them to use the colored markers to color the marshmallows according to the number of edges each vertex joins (e.g., blue for 3 edges, red for 4 edges).
- 6) Allow students to experiment with creating their own 3D shapes once they have completed the examples.
- 7) Assist the students in comparing their shapes with the diagrams to check for accuracy.

Reflection

Answer the questions below.

1) Which 3D object was the hardest to make? Explain.

2) Name a world object that resembles one of the shapes you built.

3) What would happen if you used double the number of toothpicks for one of your shapes?

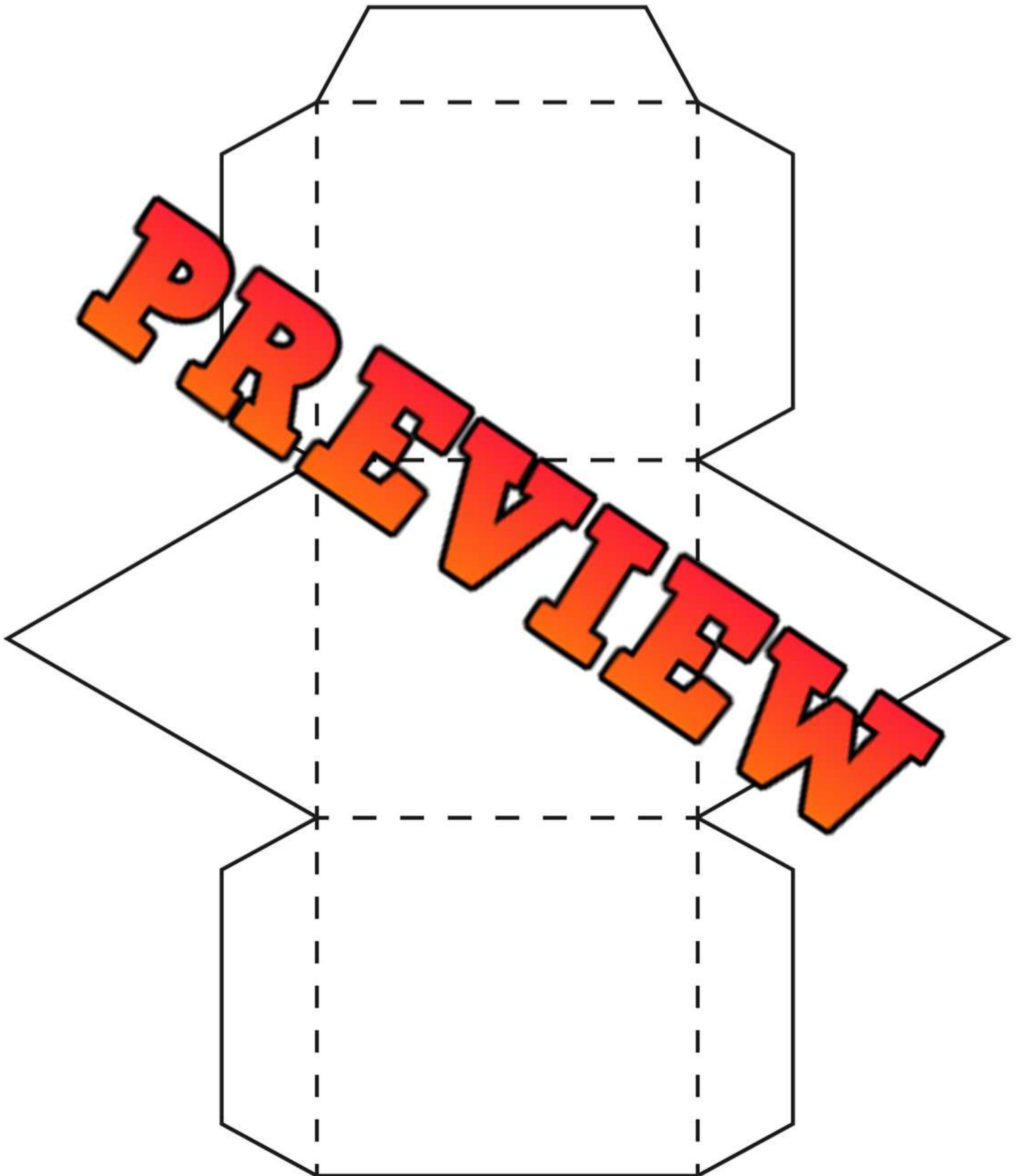
4) Draw the shape you built and label the number of faces, vertices, and edges.

Name: _____

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Curriculum Connection
SS3.4

3D Model - Triangle Based Prism Net

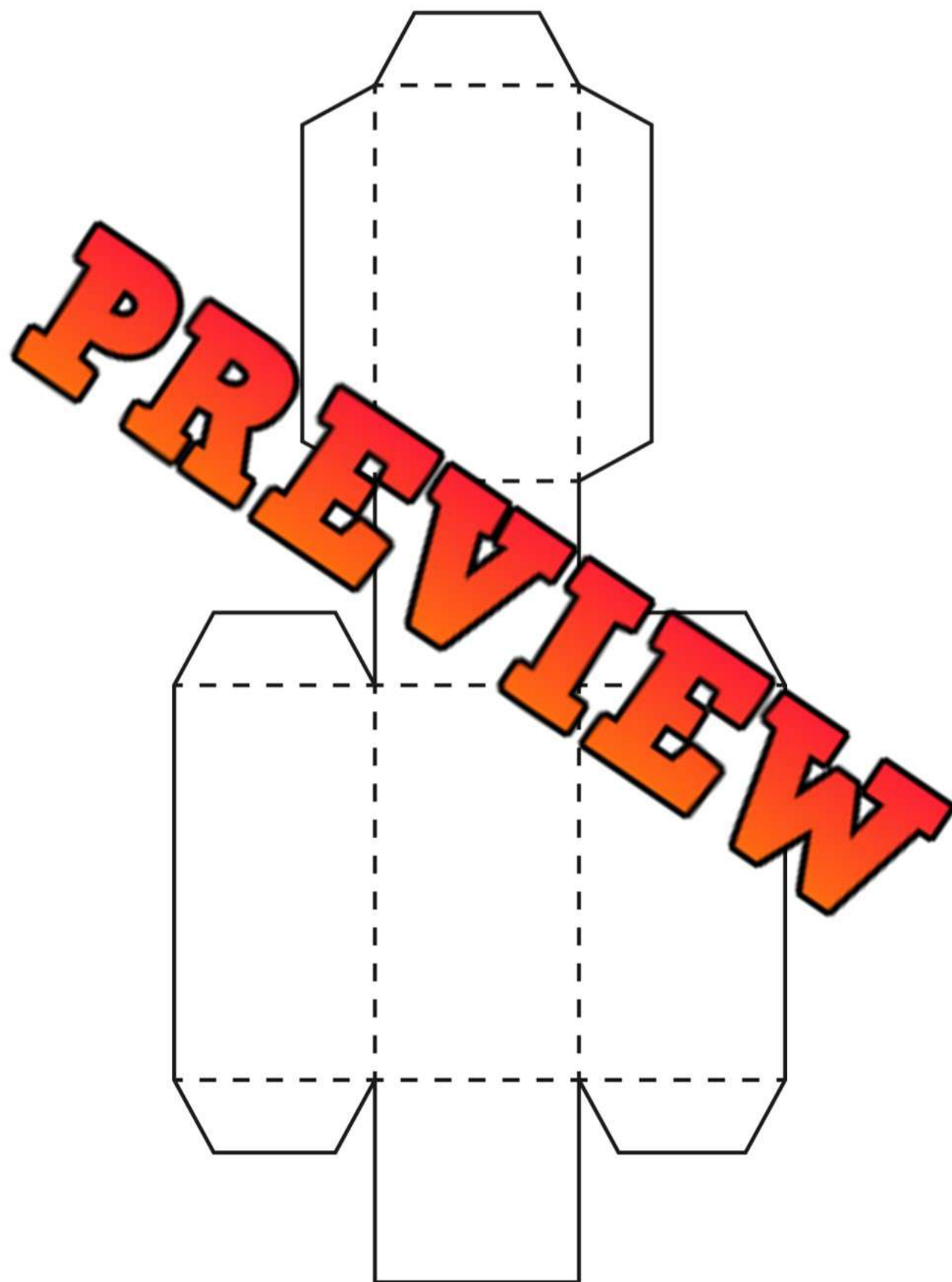


Name: _____

170

Curriculum Connection
SS3.4

3D Model - Rectangle Based Prism Net



Name: _____

176

Curriculum Connection
SS3.4

3D Model - Triangle Based Pyramid Net

PREVIEW

Name: _____

177

Curriculum Connection
SS3.4

3D Model - Square Based Pyramid Net



3D Model - Investigating Net

Name of 3D Shape	Faces	Edges	Vertices

PREVIEW

Name: _____

183

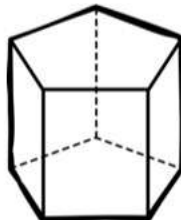
Curriculum Connection
TQ

Geometry Test

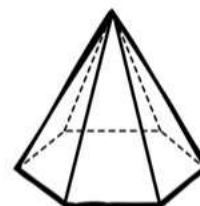
Part 1 Is the shape a prism or pyramid?



Prism Pyramid

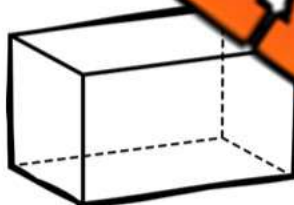


Prism Pyramid



Prism Pyramid

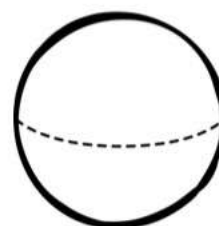
Part 2 Fill in the table below based on the prisms



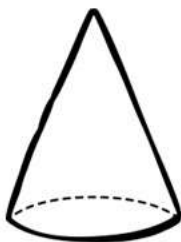
Faces	
Edges	
Vertices	
Name	



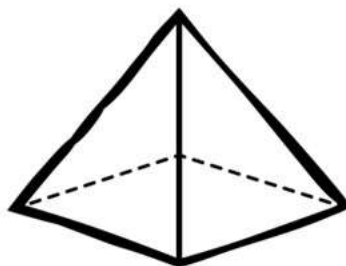
Faces	
Edges	
Vertices	
Name	



Faces	
Edges	
Vertices	
Name	



Faces	
Edges	
Vertices	
Name	



Faces	
Edges	
Vertices	
Name	



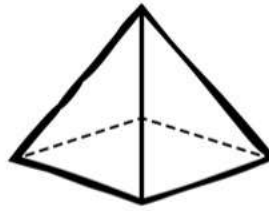
Faces	
Edges	
Vertices	
Name	

Part 3

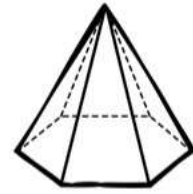
Circle the name of the 3D objects



Rectangular-Based Pyramid
 Triangular-Based Pyramid
 Pentagon-Based Pyramid



Square-Based Pyramid
 Triangular-Based Pyramid
 Pentagon-Based Pyramid



Rectangular-Based Pyramid
 Pentagon-Based Pyramid
 Hexagon-Based Pyramid



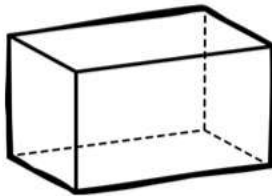
Cone Cylinder Sphere



Cone Cylinder Sphere



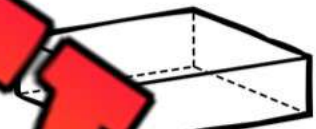
Cone Cylinder Sphere



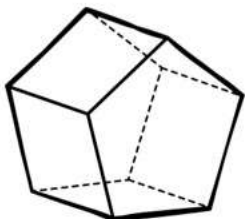
Rectangular Prism
 Triangular Prism



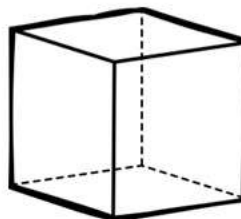
Rectangular Prism
 Triangular Prism



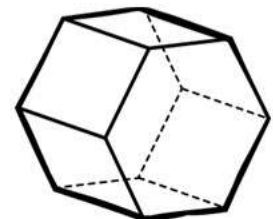
Rectangular Prism
 Triangular Prism



Rectangular Prism
 Triangular Prism
 Pentagonal Prism



Cube
 Hexagonal Prism
 Pentagonal Prism



Rectangular Prism
 Hexagonal Prism
 Pentagonal Prism