



Preview – Information



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Google Slides Lessons Preview





Manitoba Math Curriculum Patterns & Relations – Grade 2

3-Part Lesson Format

Part 1 – Minds On!

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

LEARNING GOAL

We are learning to identify and describe different patterns made with geometric shapes so we can recognize and understand patterns around us in everyday life.

Repeating Pattern Cores - 2 Elements

Core = Part that repeats - Circle the pattern core in each pattern.

1)	
2)	
3)	
4)	
5)	

Part 2 – Action!

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

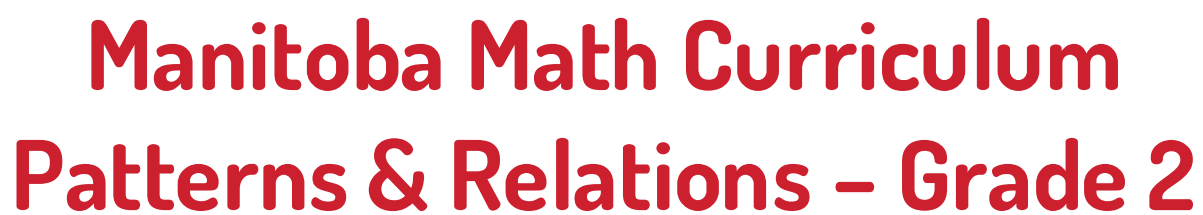
Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Exit Card - Word Problems

1) Cupcakes on a tray are decorated like this: pink icing, blue icing, green icing, pink icing, blue icing, green icing, ...What colour icing will be on the 19th cupcake?

2) In the zoo parade, the animals march in this order: elephant, lion, tiger, tiger, elephant, lion, tiger, tiger, ...Which animal will be 16th in line?



The image displays three educational worksheets designed for children's pattern recognition and sequencing activities.

Growing Patterns - Shapes

Drag the shapes to continue the growing patterns below.

	Pattern 1	Pattern 2	Pattern 3	Empty Space
1)				
2)				
3)				
4)				

Texture Bank:

-
-
-
-

Figure patterns

Figure 1 Figure 2 Figure 3 Figure 4

1)				
2)				
3)				

Increasing Patterns - Beading

Drag the textures from the texture bank to complete the remaining patterns on the bracelet.

	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Empty Spaces
1)					
2)					
3)					
4)					

TEXTURE BANK

-
-
-
-
-
-
-
-



Manitoba Math Curriculum Patterns & Relations – Grade 2

Hundreds Chart

Fill in the missing numbers on the hundreds chart.

1	2	3		5	6		8	9	
11		13	14	15		17	18		20
21	22		24	25	26		28	29	30
	32	33	34		36	37	38	39	
41	42		44	45	46		48	49	50
51		53	54	55		57	58		60
61	62		64	65	66	67		69	70
	72	73	74		76	77	78	79	
81	82	83		85	86	87	88		90
91		93	94	95	96		98	99	100

Increasing Number Patterns

Drag the numbers to extend the patterns below. 1 2 3 4 5 6 7 8 9 0

5.58"

1 2 3 4 5

1 3 5 7 9

2 4 6 8 10

Pattern Rule: Start at _____, add _____ each time.

28 33 38

15 25 35

Pattern Rule: Start at _____, add _____ each time.



Workbook Preview



Name: _____

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Curriculum Connection
P.1

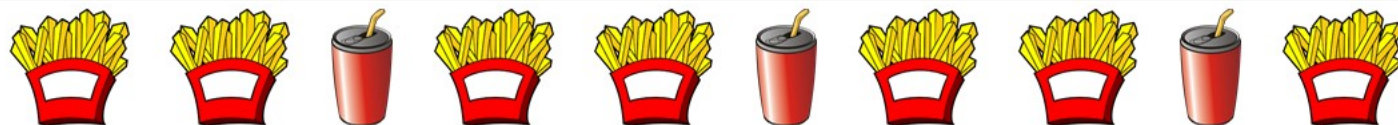
Repeating Patterns

Part 1

Continue the repeating patterns below by drawing 3 more pictures



Preview of 50 pages from this
product that contains 149 pages
total.

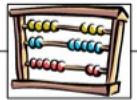


Name: _____

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Curriculum Connection
P.1

Repeating Patterns - Pattern Core



Part 1 Core = Part that repeats - Circle the pattern core and extend the pattern

A B C C A B C C _____, _____, _____, _____

A B B B A B B B _____, _____, _____, _____

A A A A B C _____, _____, _____, _____

A B B C B B B B _____, _____, _____, _____

A B C B A B C _____, _____

Part 2 Joe circled the core in _____ of the _____ below. Was Joe right?

1 2 3 1 2 3 1 2 3

5 5 8 8 5 5 8 8

YES NO

1 2 3 4 5 1 2 3 4 5

YES NO

A B A A B A A B A

YES NO

F H R H F H R H F H R H

YES NO

Name: _____

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Curriculum Connection
P.1

Repeating A/B Patterns

Questions

Label the A/B patterns below and then extend the pattern



A B C B A B



Name: _____

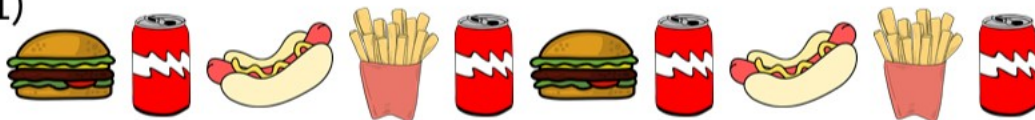
8

Curriculum Connection
P.1

Repeating A/B Patterns

Part 1 Label the A/B patterns below and extend the pattern with 3 more objects

1)



2)



3)



4)



Part 2

Create patterns that use the given A/B patterns

1)

A B B C A B B C A

2)

A A B C D A A B C D

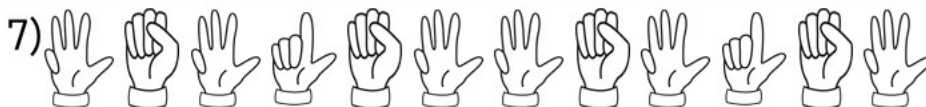
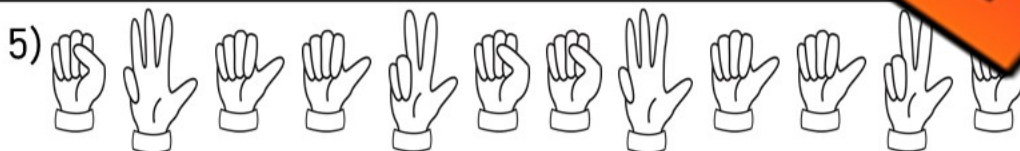
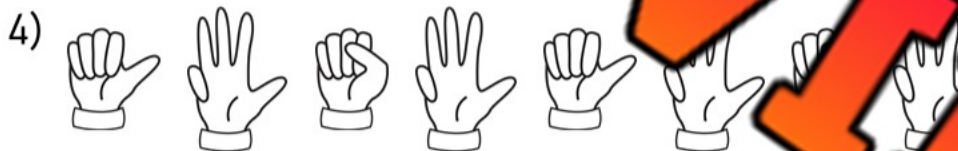
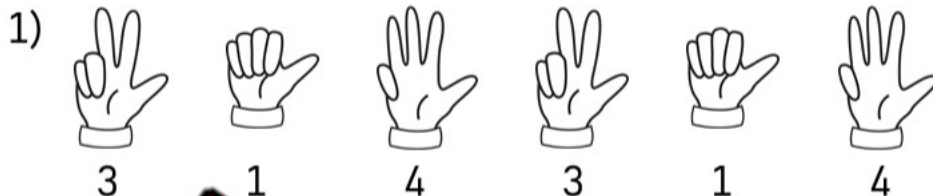
3)

A B C A A B C A A

Repeating Patterns - Fingers

Questions

Continue the repeating patterns below with three more hands



Name: _____

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Curriculum Connection
P.1

Repeating Patterns - Pattern Core

Part 1

Circle the pattern core and then continue the pattern



Part 2

Colour the shapes below to create repeating patterns. Label the colours underneath



Red

Blue

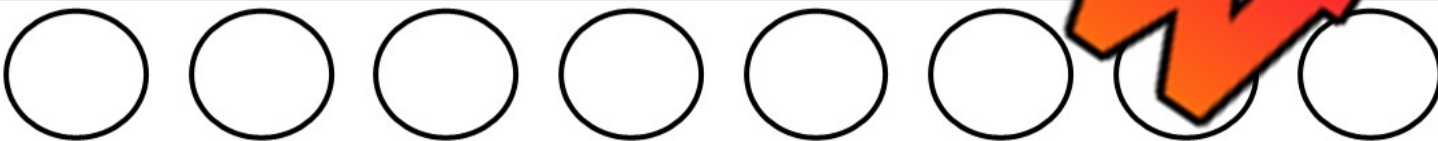
Green

Red

Blue

Green

Blue

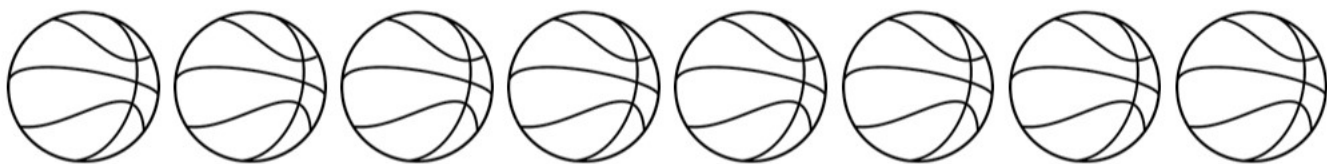


Creating Repeating Patterns - Colours

Questions

Colour the shapes below in different colours by creating a pattern

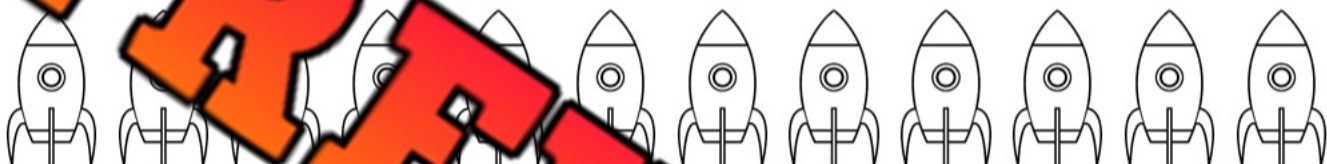
1)



2)



3)



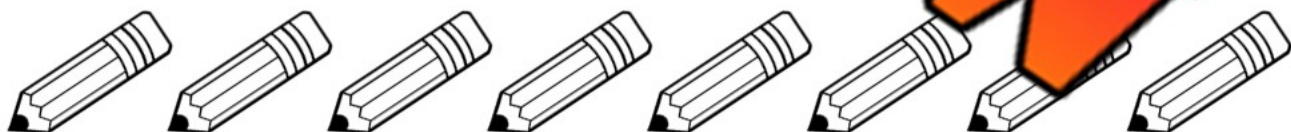
4)



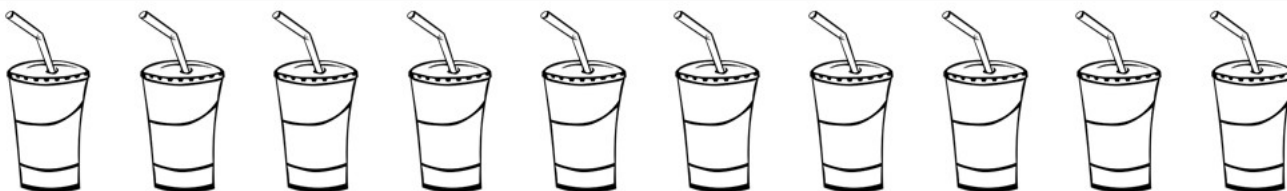
5)



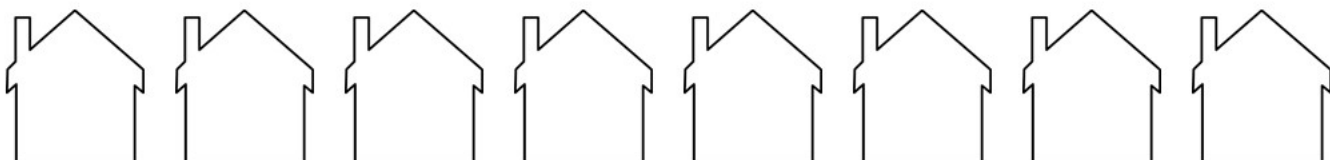
6)



7)



8)



Name: _____

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Curriculum Connection
P.1

Creating Repeating Patterns - Shape Colour

Questions

Colour the shapes below in different colours by creating a pattern



Red

Blue

Green

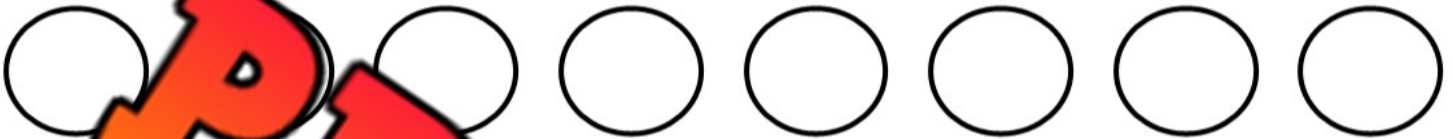
Red

Blue

Green

Red

Blue



Name: _____

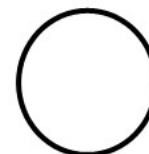
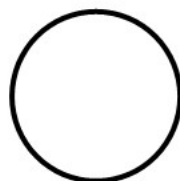
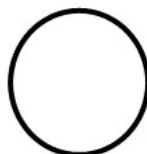
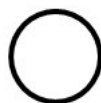
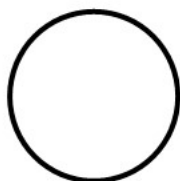
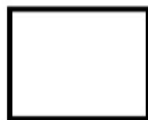
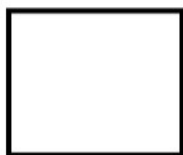
14

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P.1

Creating Repeating Patterns - Shape Size

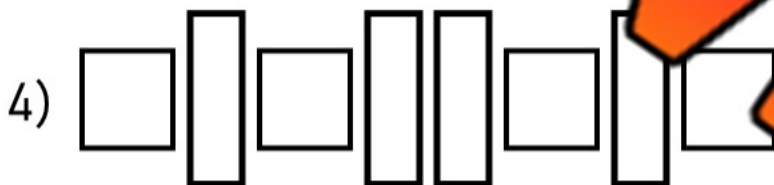
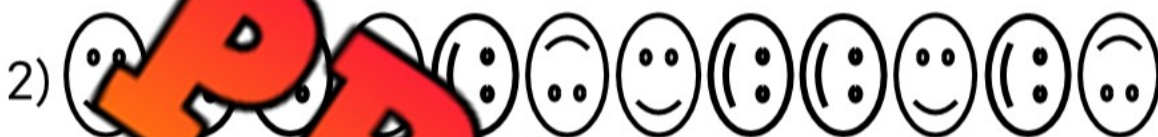
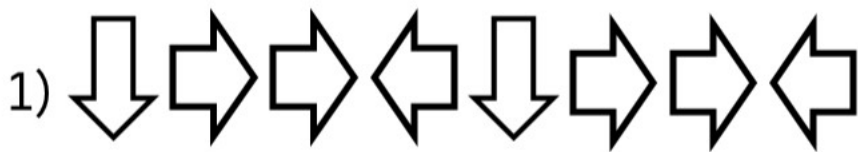
Questions

Write big, small, or medium under the shapes depending on their size



Extending Repeating Patterns - Changing Directions**Questions**

Continue the repeating patterns below with three more shapes



Name: _____

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P.1

Creating Repeating Patterns - Changing Directions

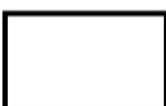
Questions

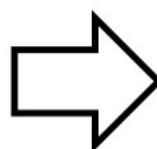
Use the shapes to create a pattern with changing directions

1) 

2) 

3) 

4) 

5) 

6) 

7) 

Name: _____

20

Curriculum Connection
P.1

Extending Repeating Patterns - Numbers

Questions

Continue the pattern below by writing more numbers

1) 5 3 5 3 5 ____

2) 2 1 1 2 3 1 ____

3) 4 8 7 5 4 8 5 ____

4) 2 9 9 3 2 2 9 9 3 ____

5) 3 6 2 2 2 3 6 2 2 2 ____

6) 7 7 4 4 5 7 7 4 4 5 ____

7) 6 0 0 7 0 6 0 0 7 0 ____

Extending Repeating Patterns - Letters**Questions**

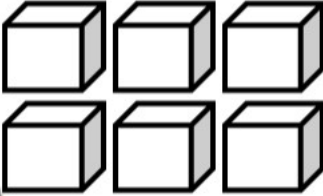
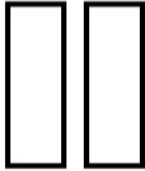
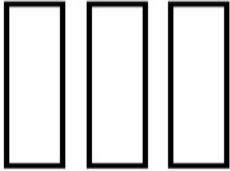
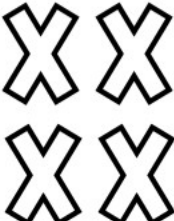
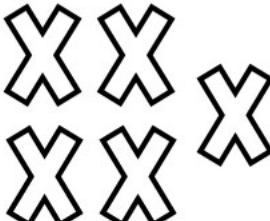
Continue the pattern below by writing more letters

1)	A	B	A	B	A	B					
2)				C	F	H					
3)	T	U									
4)	X	X	Z	X	X						
5)	P	T	G	F	P	T	G	F			
6)	T	S	E	T	T	S	E	T			
7)	Q	B	Q	Q	Q	B	Q	Q			

Growing Patterns

Questions

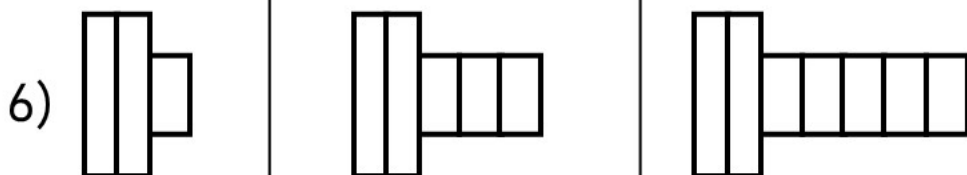
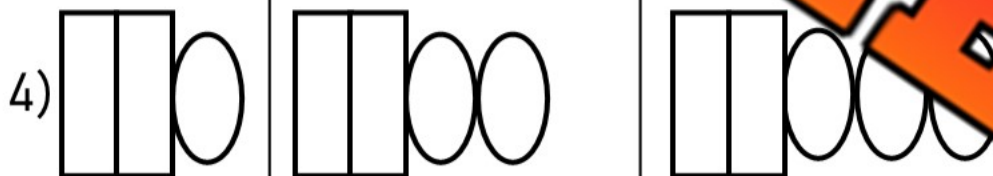
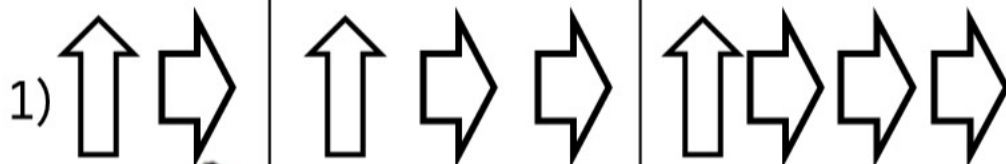
Draw the shapes in the last column

1)				
2)				
3)				
4)				
5)				
6)				

Growing Patterns

Questions

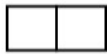
Draw the last part of the pattern



Creating Increasing Patterns with Squares

Part 1

Shade in the block that was added to the pattern



1) Figure 1

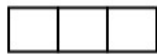


Figure 2



Figure 3



Figure 4



2) Figure 1



Figure 2

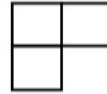


Figure 3

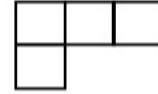


Figure 4



3) Figure 1



Figure 2



Figure 3

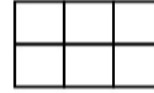


Figure 4



4) Figure 1



Figure 2



Figure 3

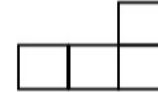
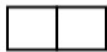


Figure 4

Part 2

Shade in the two blocks that were not in the pattern



1) Figure 1



Figure 2



Figure 3



Figure 4



2) Figure 1

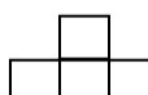


Figure 2

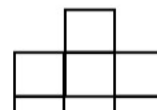
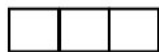


Figure 3



Figure 4



3) Figure 1



Figure 2

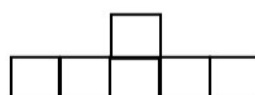


Figure 3

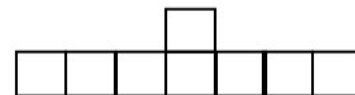
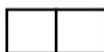


Figure 4



4) Figure 1

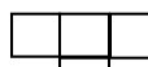


Figure 2

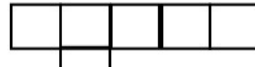


Figure 3

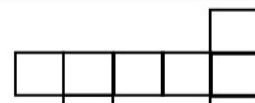
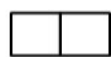


Figure 4

Creating Patterns with Squares

Part 1

Draw the next figure in the pattern by adding one block



1) Figure 1

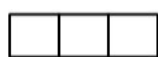


Figure 2

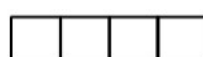


Figure 3

Figure 4



2) Figure 1

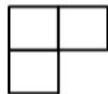


Figure 2



Figure 3

Figure 4



3) Figure 1



Figure 2



Figure 3

Figure 4



4) Figure 1



Figure 2



Figure 3

Figure 4

Part 2

Draw the next figure in the pattern by adding two blocks



1) Figure 1

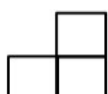


Figure 2



Figure 3

Figure 4



2) Figure 1

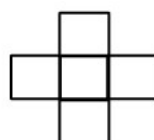


Figure 2



Figure 3

Figure 4



3) Figure 1

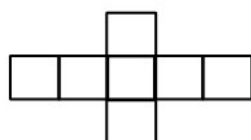


Figure 2

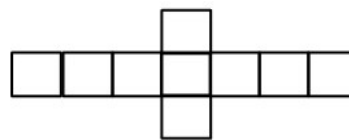


Figure 3

Figure 4

Name: _____

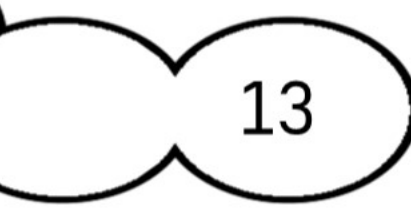
27

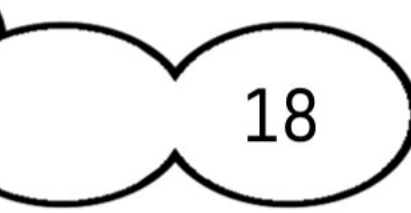
Curriculum Connection
P.2

Number Patterns 1 - 20

Questions

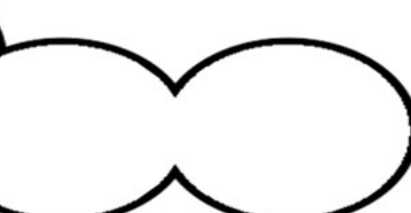
Fill in the blanks below

1.  1 5 9  13

2.  0 12  18

3.  2 4 8 10 

4.  7 11 15  19

5.  8 10 14 16 

PREVIEW

Number Patterns - 2s, 5s, 10s

Questions

Fill in the blanks below

1.



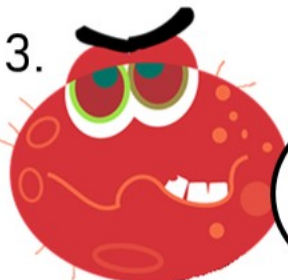
	4		8		12		16
--	---	--	---	--	----	--	----

2.



1	1		25	30			
---	---	--	----	----	--	--	--

3.



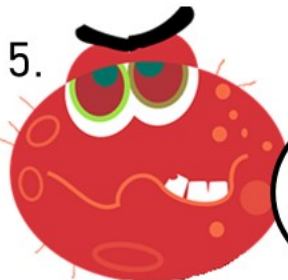
0	10				60	
---	----	--	--	--	----	--

4.



	25		35		45		55
--	----	--	----	--	----	--	----

5.



30	32				38		42	
----	----	--	--	--	----	--	----	--

Name: _____

30

Curriculum Connection
P.2

Number Patterns - 2s

Questions

Fill in the blanks below

1.



2.



3.



4.



5.



Increasing Patterns - Rules

Questions

Fill in the blanks by figuring out the pattern rules

2, 4, 6, 8, 10, 12, 14, 16

Start at _____, then add _____ each time

10, 15, 20, 25, 30, 35, 40

Start at _____, then add _____ each time

10, 20, 30, 40, 50, 60, 70

Start at _____, then add _____ each time

5, 8, 11, 14, 17, 20, 23, 26

Start at _____, then add _____ each time

12, 22, 32, 42, 52, 62, 72

Start at _____, then add _____ each time

4, 8, 12, 16, 20, 24, 28, 32

Start at _____, then add _____ each time

Name: _____

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Curriculum Connection
P.2

Creating Rules



Questions

Write your own patterns using the pattern rule

1) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 2, add 2 each time

2) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 10, add 10 each time

3) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 5, add 5 each time

4) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 3, add 3 each time

5) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 4, add 4 each time

Name: _____

39

Curriculum Connection
P.2

Input/Output Table - Pattern Rules



Rule: add 5

In	Out
3	8
16	21
23	28
42	47



Question: Fill in the input/output tables below

In	Out
15	
20	
27	
32	

Rule: add 2	
In	Out
5	
14	
27	
3	

Rule: add 4	
In	Out
41	
53	
67	
78	

Rule: add 3	
In	Out
71	
79	
84	
91	

Rule: add 5	
In	Out
50	
65	
80	
95	

Rule: add 10	
In	Out
29	
41	
58	
72	

Name: _____

41

Curriculum Connection
P.2

Patterns Within Number Strings (5s)

Part 1

Continue the growing patterns below



1) 5, 10, 15, 20, 25, 30, _____, _____, _____, _____, _____

2) 4, 9, 14, 19, 24, 29, _____, _____, _____, _____, _____

3) 1, 6, 11, 16, 21, 26, 31, _____, _____, _____, _____, _____

4) 3, 8, 13, 18, 23, 28, _____, _____, _____, _____, _____

5) 2, 7, 12, 17, 22, 27, _____, _____, _____, _____, _____

Part 2

Write the pattern by following the pattern



1) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 8, add 5 each time

2) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 17, add 5 each time

3) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 20, add 5 each time

4) _____, _____, _____, _____, _____, _____

Pattern Rule: Start at 29, add 5 each time

Name: _____

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Curriculum Connection
P.2

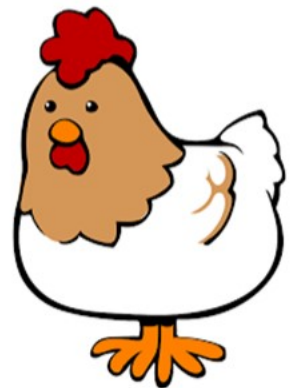
The Egg Challenge

Challenge

Write the pattern by following the pattern rule

If a hen laid 1 egg on Monday, 2 eggs on Tuesday, 3 eggs on Wednesday and the pattern continued, how many eggs would it lay on the Sunday?

PREVIEW



How many days would the hen need to lay 5 eggs?



Patterning - Word Problems

Questions

Answer the questions below

1) Jill's pool uses 2 chlorine pucks in May, 5 pucks in June, and 8 pucks in July. If the pattern continued, how many pucks would Jill use in August and November?

August: _____

November: _____



2) Henry's pizza store sells a certain amount of pizza each week. He sells 3 pizzas on Monday, 6 pizzas on Tuesday, 9 pizzas on Wednesday, and 12 pizzas on Thursday. If the pattern continues, how many pizzas will he sell on Friday?

Bonus: How many pizzas will he sell for the weekend?



3) Sam makes 6 dollars on Monday, 10 dollars on Tuesday, 14 dollars on Wednesday, and 18 dollars on Thursday. How much money did he spend on Saturday?



Patterning Word Problem - Halloween

Questions

Follow the problem-solving steps below

- | | | |
|---|--|--|
| ☐ Read the problem carefully | ☐ Underline important information | ☐ Draw pictures |
| ☐ Write a number sentence | ☐ Solve the problem | ☐ Check your answer |

Bill is trick or treating for Halloween. He leaves his house with 5 candies in his bag. He gets 2 candies for each house he visits. He visits 3 houses.

a) Draw the bag and label it.

b) How many total candies does he get?



Patterning Word Problem - Snowfall**Questions**

Follow the problem-solving steps below

- | | | |
|---|--|--|
| ☐ Read the problem carefully | ☐ Underline important information | ☐ Draw pictures |
| ☐ Write a number sentence | ☐ Solve the problem | ☐ Check your answer |

The snow is falling outside Rayna's house. She records the height of the snow each hour. After the 1st hour, it is 20cm. After the 2nd hour it is 28cm. After the 3rd hour it is 32cm.



a) What will the height of the snow be after the 4th hour?

b) What will the height of the snow be after the 5th hour?

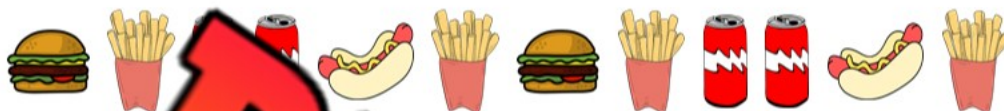
Name: _____

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Patterning Quiz

Part 1

Continue the repeating patterns below by drawing 3 more pictures



Part 2

Identify the pattern core and continue the pattern

1 1 2 3 1 1 _____

3 6 2 2 2 3 6 2 _____

7 7 4 4 5 7 7 4 4 5 _____

Part 3

Follow the rule by adding to find the next number

1) (Add 5)

3, 8, 13, _____, _____, _____

2) (Add 3)

23, 26, 29, _____, _____, _____

3) (Add 6)

2, 8, 14, _____, _____, _____

4) (Add 3)

18, 21, 24, _____, _____, _____

5) (Add 2)

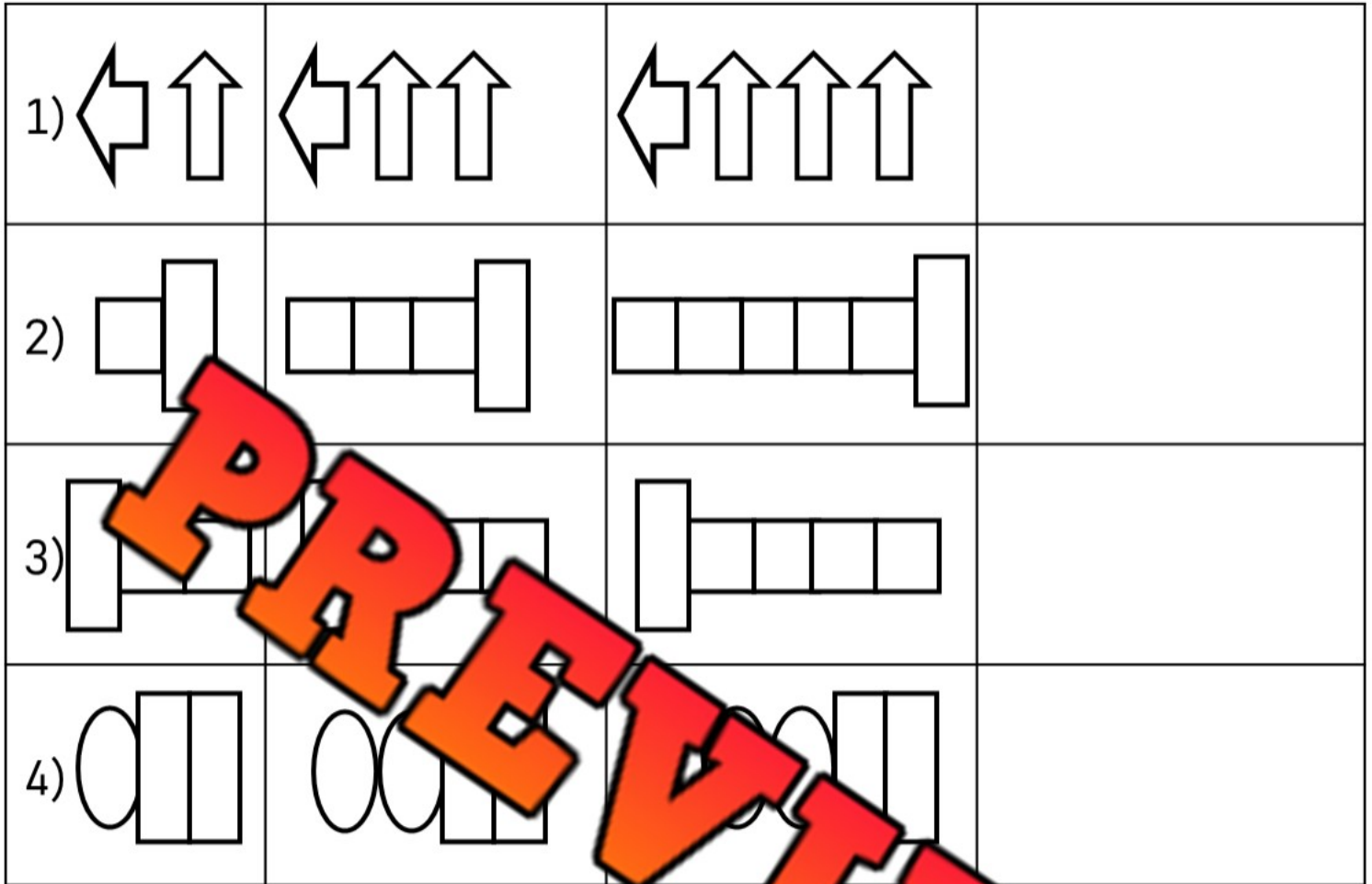
60, 62, 64, _____, _____, _____

6) (Add 7)

10, 17, 24, _____, _____, _____

Part 4

Draw the last part of the pattern



Part 5

Solve the word problem. Now, show your work!

If you read 1 book on Monday, 2 books on Tuesday, 3 books on Wednesday, how many books would you read on Sunday if you continued?

How many days would it take you to read 45 books?

Name: _____

52

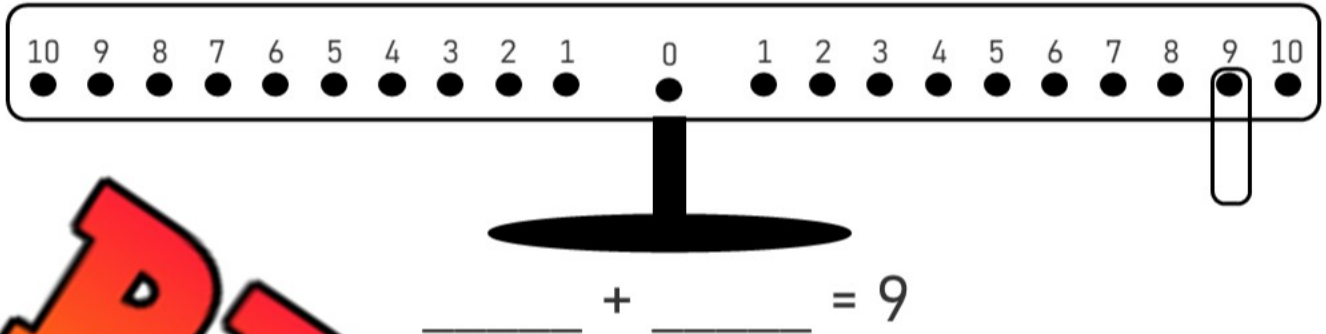
Curriculum Connection
P.3

Balance Pan Equations

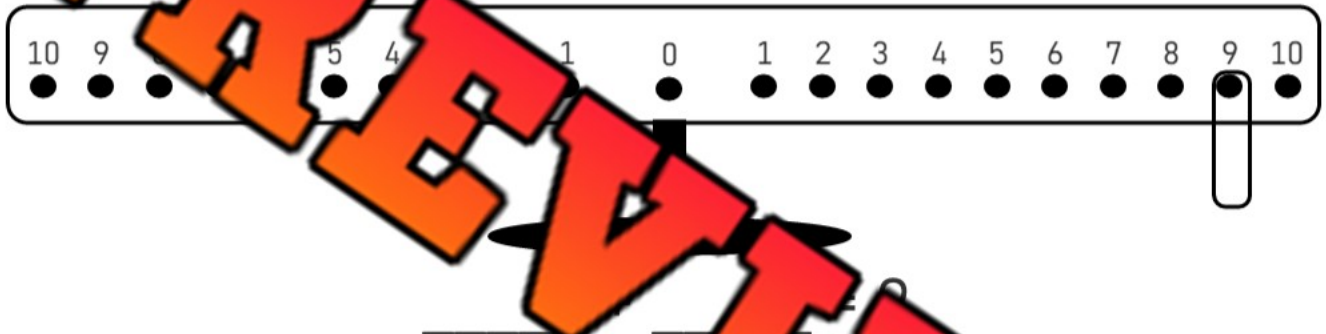
Questions

How many ways can you balance the equation to equal 9

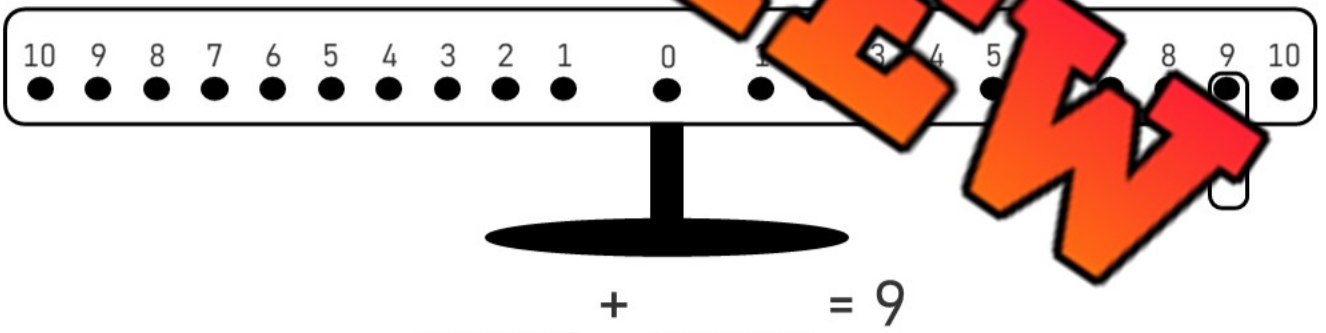
1)



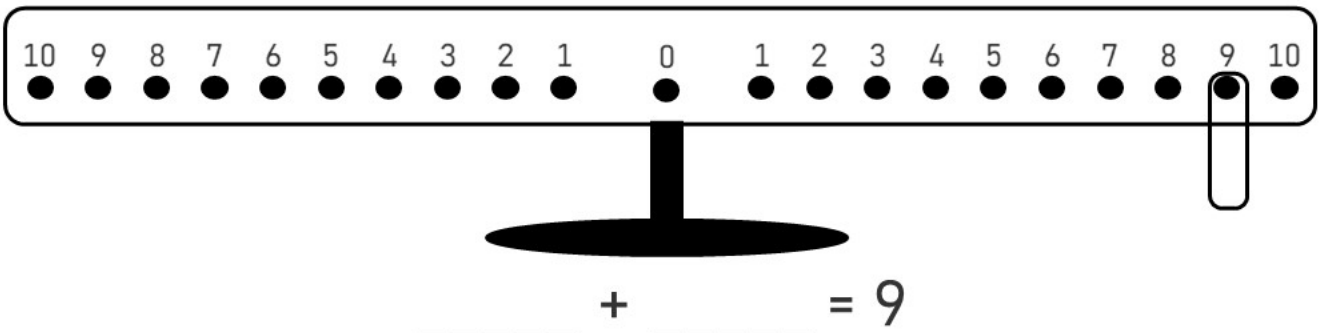
2)



3)



4)

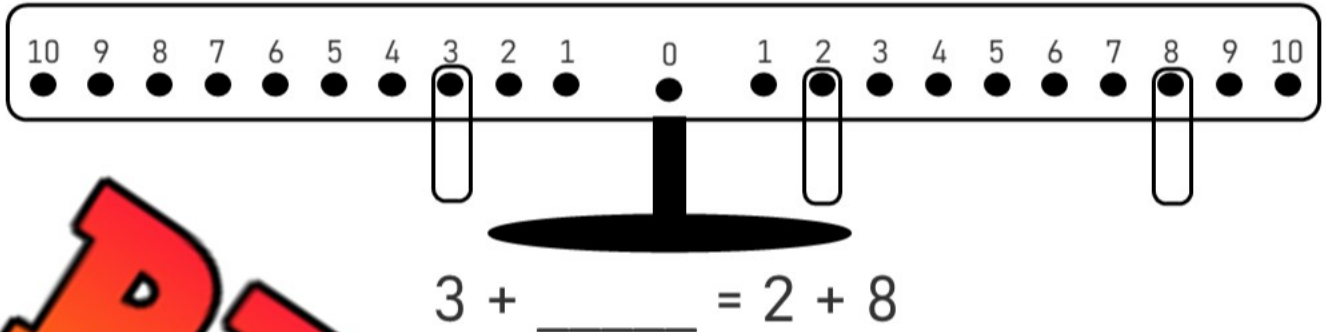


Balance Pan Equations

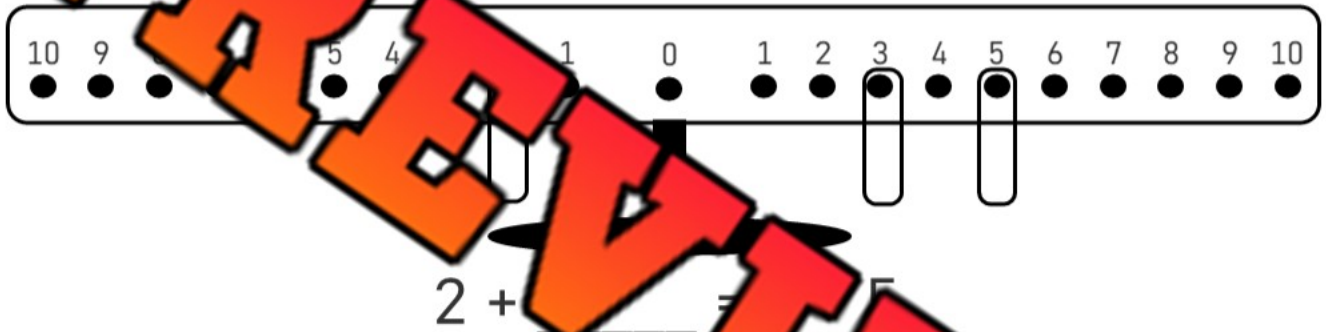
Questions

Balance the equations below

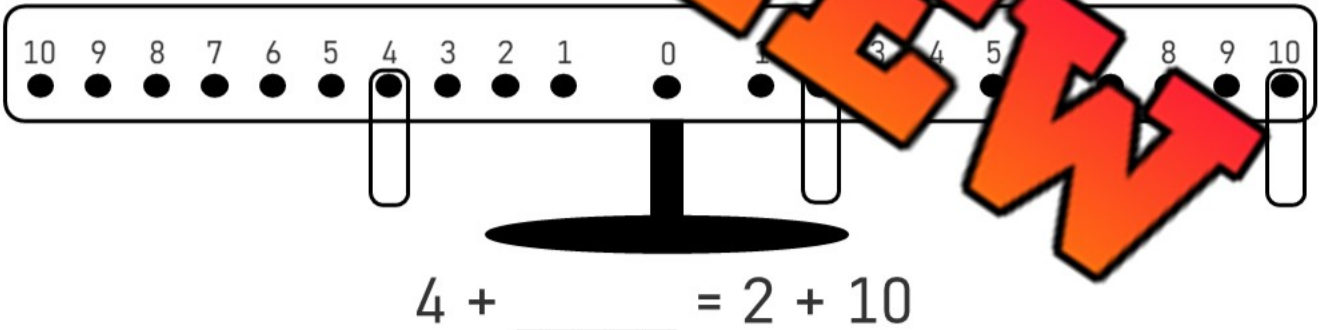
1)



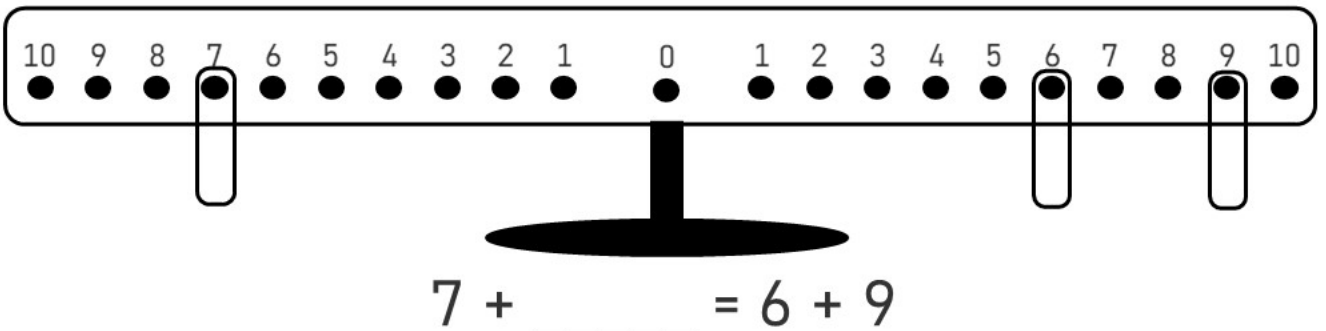
2)



3)



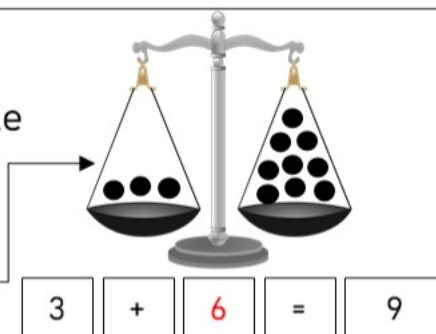
4)



Pre-Algebra - Balancing Addition Equations

Balance the scales by putting the same amount of circles on each scale

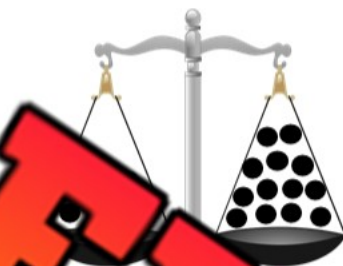
Answer: Add 6 circles to the scale to make them equal.



Question: How many balls do you need to add to balance the scales?



$$8 + \square = 11$$



$$\square + \square = \square$$



$$8 + \square = 14$$



$$5 + \square = 9$$



$$7 + \square = 12$$



$$2 + \square = 13$$



$$6 + \square = 10$$



$$3 + \square = 14$$



$$1 + \square = 12$$

Pre-Algebra - Balancing Addition Equations

Balancing equations means both sides of the equal sign must be the same.

$$\begin{array}{c} 10 \\ \swarrow \searrow \\ 3 + 7 = \boxed{10} \end{array}$$

Examples:

$$\begin{array}{c} 30 \\ \swarrow \searrow \\ 24 + \boxed{6} = 30 \end{array}$$

Questions

Fill in the missing number to balance the equation

1) $4 + 2 = \boxed{}$

$\begin{array}{cc} \circ \circ & \\ \circ \circ & \end{array}$

2) $3 + 6 = \boxed{}$

$\begin{array}{cc} \circ & \circ \circ \circ \\ \circ \circ & \circ \circ \circ \end{array}$

3) $4 + 5 = \boxed{}$

$\begin{array}{cc} \circ \circ & \circ \circ \circ \\ \circ \circ & \circ \circ \end{array}$

4) $1 + \boxed{} = 10$

$\begin{array}{cc} \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

5) $\boxed{} + 4 = 10$

$\begin{array}{cc} \circ \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

6) $4 + \boxed{} = 12$

$\begin{array}{cc} \circ \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

7) $\boxed{} + 6 = 10$

$\begin{array}{cc} \circ \circ \circ \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

8) $\boxed{} + 4 = 10$

$\begin{array}{cc} \circ \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

9) $\boxed{} + 5 = 11$

$\begin{array}{cc} \circ \circ \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

10) $\boxed{} + 2 = 9$

$\begin{array}{cc} \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

11) $3 + \boxed{} = 8$

$\begin{array}{cc} \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

12) $6 + 7 = \boxed{}$

$\begin{array}{cc} \circ \circ \circ \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

13) $\boxed{} + 6 = 16$

$\begin{array}{cc} \circ \circ \circ \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

14) $7 + \boxed{} = 9$

$\begin{array}{cc} \circ \circ \circ \circ \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

15) $3 + 12 = \boxed{}$

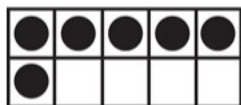
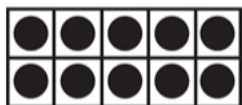
$\begin{array}{cc} \circ \circ \circ & \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \circ \end{array}$

Making 20 - Changing Variables

Questions

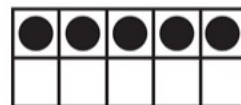
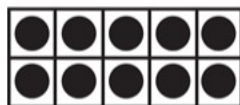
How many more dots do you need to add to make 20?

1)



$$\underline{\hspace{2cm}} = 20$$

2)



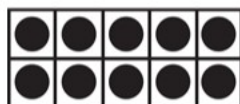
$$15 + \underline{\hspace{2cm}} = 20$$

3)



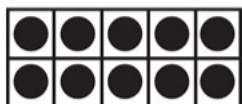
$$10 + \underline{\hspace{2cm}} = 20$$

4)



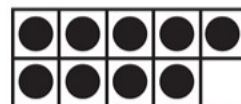
$$12 + \underline{\hspace{2cm}} = 20$$

5)



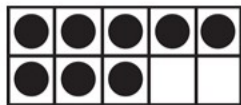
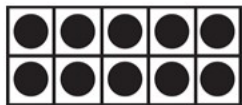
$$13 + \underline{\hspace{2cm}} = 20$$

6)



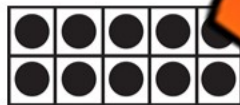
$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 20$$

7)



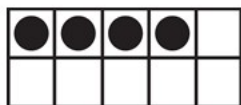
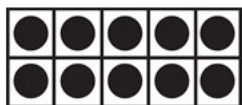
$$18 + \underline{\hspace{2cm}} = 20$$

8)



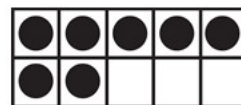
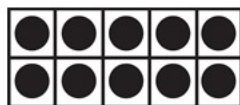
$$11 + \underline{\hspace{2cm}} = 20$$

9)



$$14 + \underline{\hspace{2cm}} = 20$$

10)



$$17 + \underline{\hspace{2cm}} = 20$$

Name: _____

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Curriculum Connection
P.4

Addition to 100 - Are They Equal?

Are the equations equal? Put a slash through the equal sign for any equations that are not equal

$15 + 7 = 22$

$28 + 4 \neq 33$

$44 + 6 = 50$



Questions Put a slash ($\neq$) through the equal sign if it is not balanced

1) $15 + 7 = 22$	2) $28 + 4 = 33$	3) $44 + 6 = 50$
4) $21 + 6 = 27$	5) $24 + 7 = 31$	6) $23 + 10 = 33$
7) $19 + 6 = 26$	8) $26 + 5 = 31$	9) $39 + 7 = 46$
10) $58 + 6 = 66$	11) $61 + 5 = 66$	12) $17 + 73 = 90$
13) $60 + 10 = 70$	14) $81 + 0 = 81$	15) $84 + 3 = 88$
16) $90 + 7 = 96$	17) $94 + 5 = 99$	18) $87 + 10 = 97$

Addition Expressions - Equal?

Are the expressions equal? Put a slash through the equal sign for any equations that are not equal

Examples: $5 + 3 = 2 + 6$ $4 + 5 \neq 7 + 1$



Questions

Put a slash ($\neq$) through the equal sign if it is not balanced

1) $4 + 3 = 1 + 7$

7) $6 + 3 = 2 + 5$

2) $7 + 3 = 5 + 5$

8) $6 + 5 = 4 + 8$

3) $8 + 5 = 4 + 7$

9) $2 + 5 = 1 + 9$

4) $7 + 7 = 5 + 8$

10) $9 + 4 = 4 + 9$

5) $14 + 2 = 11 + 5$

11) $16 + 3 = 14 + 5$

6) $23 + 4 = 20 + 7$

12) $30 + 5 = 33 + 3$

Name: _____

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Curriculum Connection
P.4**Addition - Which Equation Matches?**

Two of the equations equal the same number. Which one matches the shaded in equation

Example

$4 + 7$

$9 + 2$

$5 + 5$

**Questions**

Circle the equation that matches the shaded in equation

1)

$6 + 2$

$4 + 3$

2)

$6 + 3$

4

$2 + 8$

3)

$8 + 4$

1

$6 + 6$

4)

$5 + 8$

$4 + 7$

5)

$8 + 2$

$7 + 3$

$5 + 6$

6)

$10 + 3$

$8 + 5$

$6 + 6$

7)

$3 + 6$

$4 + 7$

$8 + 1$

Name: _____

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Curriculum Connection
P.4**Addition - Which Equation Doesn't Belong?**

Two of the equations equal the same. One of the equations does not belong!

Example

$4 + 3$ $5 + 1$ $2 + 5$

**Questions**

Circle the equation that doesn't belong!

1)

$4 + 6$

$3 + 7$

$2 + 9$

2)

$7 + 4$

$6 + 7$

$9 + 3$

3)

$2 + 3$

$5 + 0$

$4 + 2$

4)

$3 + 8$

$7 + 7$

$12 + 4$

5)

$8 + 4$

$6 + 9$

$10 + 5$

6)

$12 + 3$

$10 + 5$

$8 + 6$

7)

$7 + 4$

$10 + 2$

$8 + 3$

Finding the Missing Information - To 20

Find out how many coins are in the bag using the information given to you.

Example

There are 9 coins in total and 5 outside of the bag.

Therefore, there are 4 in the bag

$$5 + \underline{4} = 9$$



Question: How many coins are in the bags below?

1)



Answer: _____

2)



Answer: _____

2)



Answer: _____

4)



Answer: _____

5)



Answer: _____

6)



Answer: _____

Name: _____

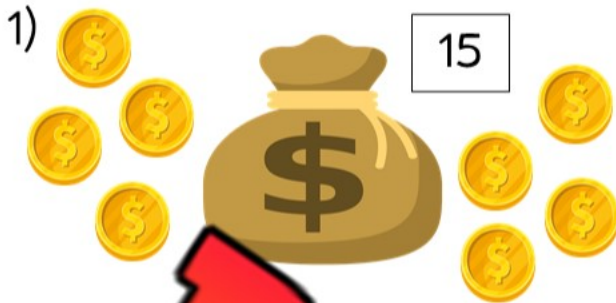
67

Curriculum Connection
P.3

Finding the Missing Information - To 30

Questions

How many coins are in the bags below?



Answer: _____



Answer: _____



Answer: _____



Answer: _____



Answer: _____



Answer: _____



Answer: _____



Answer: _____

Word Problems - Solving Addition Equations

Questions

Answer the questions below

1) Tim drove 20km to get to work. Then he drove to the store. When he got to the store, he had driven 28 km in total. How many km did he drive to the store?



2) Steve got 25 points for beating level 1 in a video game. He got 25 more points for beating level 2. How many total points did he have after level 2?



Bonus – He had 75 total points after beating level 3. How many points did he get in level 3?

3) In badminton, Jessica and Erin won their game. They scored 21 points and their opponents only scored 16. Jessica scored 13 of the 21 points. How many points did Erin score?



Pre-Algebra - Balancing Subtraction Equations

Balance the scales by taking away
circles from the scale

Answer: take 4 circles from the
scale to make them equal.



$$\boxed{7} - \boxed{4} = \boxed{3}$$

Question: How many balls do you need to take away to balance the scales?



$$\boxed{11} - \boxed{} = \boxed{8}$$



$$\boxed{9} - \boxed{} = \boxed{5}$$



$$\boxed{10} - \boxed{} = \boxed{4}$$



$$\boxed{8} - \boxed{} = \boxed{1}$$



$$\boxed{11} - \boxed{} = \boxed{3}$$



$$\boxed{13} - \boxed{} = \boxed{2}$$



$$\boxed{10} - \boxed{} = \boxed{4}$$



$$\boxed{14} - \boxed{} = \boxed{1}$$



$$\boxed{4} - \boxed{} = \boxed{0}$$

Pre-Algebra - Balancing Addition Equations

Balancing equations means both sides of the equal sign must be the same.

$$\begin{array}{c} 3 \\ \swarrow \searrow \\ 7 - 4 = \boxed{3} \end{array}$$

Examples:

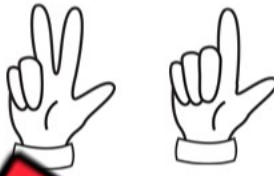
$$\begin{array}{c} 8 \\ \swarrow \searrow \\ 14 - \boxed{6} = 8 \end{array}$$

Questions Fill in the missing number to balance the equation

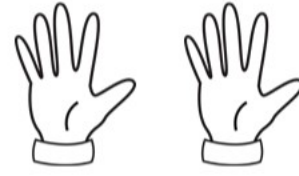
1) $4 - \boxed{3} = \boxed{}$



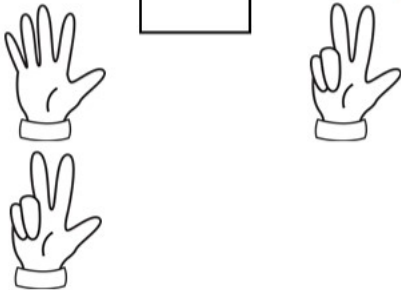
2) $3 - 2 = \boxed{}$



3) $5 - 5 = \boxed{}$



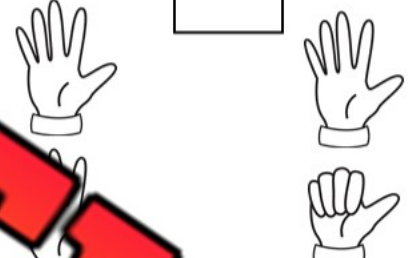
4) $8 - \boxed{} = 3$



5) $6 - \boxed{} = 2$



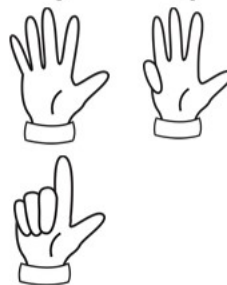
6) $10 - \boxed{} = 6$



7) $\boxed{} - 6 = 2$



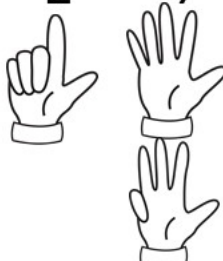
8) $\boxed{} - 7 = 4$



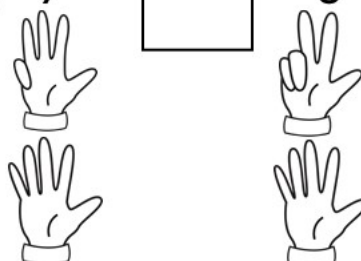
9) $\boxed{} - 10 = \boxed{}$



10) $\boxed{} - 2 = 9$



11) $9 - \boxed{} = 8$



12) $6 - 2 = \boxed{}$



Name: _____

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Curriculum Connection
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Subtraction to 50 - Are They Equal?

Are the equations equal? Put a slash through the equal sign for any equations that are not equal

14 - 3 = 11

22 - 3 $\neq$ 18

36 - 5 = 31

**Questions**Put a slash $\neq$ through the equal sign if it is not balanced

1)

2) $24 - 4 = 20$

3) $15 - 4 = 10$

4) $16 - 3 = 12$

5) $11 - 5 = 14$

6) $18 - 3 = 14$

7) $22 - 5 = 17$

8) $26 - 4 = 20$

9) $24 - 3 = 20$

10) $28 - 5 = 23$

11) $31 - 3 = 27$

12) $34 - 4 = 30$

13) $36 - 5 = 31$

14) $39 - 4 = 34$

15) $37 - 4 = 33$

16) $44 - 0 = 44$

17) $46 - 6 = 41$

18) $50 - 5 = 45$

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P.4

Subtraction - Which Equation Matches?

Two of the equations equal the same number. Which one matches the shaded in equation

Example

$9 - 4$

$8 - 3$

$10 - 6$



Questions

Circle the equation that matches the shaded in equation

1)

$8 - 3$

$4 - 1$

$7 - 3$

2)

$8 - 3$

$5 - 2$

$7 - 3$

3)

$10 - 2$

$9 - 2$

$9 - 1$

4)

$7 - 2$

$6 - 1$

5)

$12 - 3$

$11 - 2$

$9 - 1$

6)

$15 - 5$

$9 - 0$

$10 - 0$

7)

$9 - 5$

$8 - 3$

$10 - 6$

Name: _____

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Subtraction - Which Equation Doesn't Belong?

Two of the equations equal the same. One of the equations does not belong!

Example

$$8 - 4 \quad (10 - 5) \quad 9 - 5$$



Question

Circle the equation that doesn't belong!

1)

$2 - 1$

$4 - 2$

2)

$8 - 1$

$7 - 1$

$9 - 5$

3)

$6 - 3$

$4 - 1$

$6 - 2$

4)

$9 - 2$

$7 - 0$

5)

$11 - 5$

$9 - 4$

$8 - 3$

6)

$7 - 1$

$9 - 3$

$10 - 3$

7)

$9 - 1$

$10 - 3$

$8 - 0$

Word Problems - Solving Subtraction Equations**Questions**

Answer the questions below

1) Mrs. Wilson had 20 pencils at the start of the school year. She gave all the kids in her class 1 pencil. She now has 3 pencils. How many students are in Mrs. Wilson's class?



2) Hudson saved _____ dollars and bought a new toy for 15 dollars. How many dollars does he have left?



Bonus: He saved 15 more dollars. Can he buy a new video game for 40 dollars?

3) The grade 2 class planted 42 tomato seeds but only 36 tomato plants grew. How many plants did not grow?



Name: _____

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Variables and Equations - Unit Quiz

Part 1

Put a slash ($\neq$) through the equal sign if it is not balanced

1) $5 + 10 = 15$

2) $10 + 6 = 12$

3) $15 + 10 = 25$

4) $17 + 5 = 22$

5) $18 + 6 = 24$

6) $19 + 5 = 24$

7) $5 - 7 = 4$

8) $10 - 4 = 6$

9) $16 - 5 = 11$

10) $21 - 6 = 15$

11) $27 - 7 = 20$

12) $28 - 5 = 22$

Part 2

Circle the equation that matches the equation

1)

$7 - 2$

$8 - 1$

2)

$11 - 4$

$7 - 0$

$10 - 4$

3)

$8 + 6$

$9 + 5$

$10 + 5$

4)

$11 + 6$

$9 + 9$

$7 + 10$

Part 3

How many coins are in the bags below?

1)



9

2)



12

Answer: _____

Answer: _____

2)



15

4)



20

Answer: _____

Answer: _____

Part 4

Circle the equation that belongs!

1)

$4 + 6$

3)

$2 + 9$

2)

$9 - 5$

$12 - 7$

Part 5

Solve the word problem below. Make sure to write the equation

Alexa saved 27 dollars from her allowance. She was given some money from her grandmother for her birthday. She now has 40 dollars. How much did her grandmother give her?