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Google Slides Lessons Preview





Manitoba Math Curriculum Number Unit – Grade 7

3-Part Lesson Format

Part 1 – Minds On!

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



Learning Goal

We are learning to recall and use division facts for numbers like 2, 5, 10, 3, 4, 6, 7, 8, and 9, and divide by 10, so we can solve problems with numbers quickly and easily.



Discussion Questions

- 1) How can you tell if a number is divisible? – If you look at a number like 24, how can you quickly decide if it is divisible by 2, 3, or 4 without dividing each time? What clues do you notice?
- 2) What's the fastest way to divide? – If you need to solve $72 \div 8$, would you rather skip count, use multiplication, or another strategy? Why?
- 3) Why does dividing by a bigger number make the answer smaller? – If you divide $48 \div 4$, you get 12, but if you divide $48 \div 8$, you get 6. Why does dividing by a bigger number give you a smaller answer?

Divisibility Check

Paste the sticky notes on the specified boards.

45 95 105 135 351 501 81 570 456 3456

Divisible by 5

Divisible by 9

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Divisibility Rules - Word Problems

- 1) Eli says that all numbers divisible by 6 are also divisible by 3. Is Eli correct? Explain why or why not.
- 2) Sorrel says that all odd numbers are not divisible by 2. Is this always true? Explain why.
- 3) Kairo has 96 pencils. He wants to arrange them into equal rows of 7. Will there be any pencils left over? How do you know?





Manitoba Math Curriculum Number Unit – Grade 7

Adding Decimals - Thousandths – Regrouping

Use the standard algorithm to solve the addition problems below.

1)
$$\begin{array}{r} 43.284 \\ + 25.785 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 53.943 \\ + 67.598 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 73.257 \\ + 56.894 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 456.683 \\ + 573.977 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 758.652 \\ + 667.359 \\ \hline \end{array}$$

6)
$$\begin{array}{r} 895.775 \\ + 968.266 \\ \hline \end{array}$$

	7	8	.	1	5	4
-	4	9	.	6	3	7

	9	6	.	5	3	1
-	5	4	.	7	8	6

	3	3	4	.	5	6	4
-	2	7	8	.	8	7	5

	8	6	3	.	7	8	3
-	6	2	9	.	8	4	6

Use the area

1) $13 \times 18 =$ _____

2) $22 \times 19 =$ _____

3) $36 \times 45 =$ _____

4) $53 \times 67 =$ _____

5) $78 \times 61 =$ _____

6) $84 \times 92 =$ _____



Manitoba Math Curriculum Number Unit – Grade 7

Multiplication – 2-Digit Multiplier

Use the standard algorithm to solve the multiplication problems below.

1)

	2	5	.	3	6
x				1	4

2)

	3	.	6	5	
x			7	2	

3)

	9	4	.	5	2
x				9	6

Mental Math

When you multiply by 0.1, it's the same as dividing by 10. Move the digits one place to the right.
Example: $500 \times 0.1 = 50$ and $50 \times 0.1 = 5$

When you multiply by 0.01, it's the same as dividing by 100. Move the digits two places to the right.
Example: $500 \times 0.01 = 5$ and $50 \times 0.01 = 0.5$

Match each equation with its answer.

$60 \times 0.1 = \underline{\hspace{2cm}}$		2
$200 \times 0.01 = \underline{\hspace{2cm}}$		90
$40 \times 0.1 = \underline{\hspace{2cm}}$		6
$9\,000 \times 0.01 = \underline{\hspace{2cm}}$		300
$3\,000 \times 0.1 = \underline{\hspace{2cm}}$		4

Fraction	Decimal	Percent



Workbook Preview



Grade 7 NUMBER

	Curriculum Expectations	Pages That Cover the Expectations
N.1	Determine and explain why a number is divisible by 2, 3, 4, 5, 6, 8, 9 or 10, and why a number cannot be divided by 0.	3 – 7
N.2	Demonstrate an understanding of the addition, subtraction, multiplication and division of decimals to solve problems (for more than 1-digit divisors or 2-digit multipliers, the use of technology is expected).	8 – 60
N.	Preview of 50 pages from this product that contains 343 pages total.	
N.		
N.		
N.5	Demonstrate an understanding of adding and subtracting positive fractions and mixed numbers, with like and unlike denominators, concretely, pictorially and symbolically (limited to positive sums and differences).	84 – 112
N.6	Demonstrate an understanding of addition and subtraction of integers, concretely, pictorially and symbolically.	113 – 125
N.7	Compare and order positive fractions, positive decimals (to thousandths) and whole numbers by using: • benchmarks • place value • equivalent fractions and/or decimals.	126 – 167

Name: _____

3

Curriculum Connection
N.1

Divisibility Rules

We can determine whether one whole number is divisible by another without doing division. We can use the following divisibility rules:

- A number is divisible by **2** if the last digit is even (0, 2, 4, 6, or 8)
- A number is divisible by **3** if the sum of the digits is divisible by 3
- A number is divisible by **4** if the last two digits form a number divisible by 4
- A number is divisible by **5** if the last digit is 0 or 5
- A number is divisible by **6** if the number is divisible by both 2 and 3
- A number is divisible by **9** if the sum of the digits is divisible by 9
- A number is divisible by **10** if the last digit is a 0

Question: For each number on the left, place a check mark under the numbers it is divisible by

Number	2	3	5	6	8	9	10
1) 65							
2) 20							
3) 105							
4) 81							
5) 120							
6) 548							
7) 423							
8) 657							

Name: _____

4

Curriculum Connection
N.1

Divisibility Rules - 2 and 3

We can determine whether one whole number is divisible by another without doing division. We can use the following divisibility rules:

- A number is divisible by **2** if the last digit is even (0, 2, 4, 6, or 8)
- A number is divisible by **3** if the sum of the digits is divisible by 3

Part 1 Is the number divisible by 2?

1)

2)

953

3)

682

4)

8 694

Part 2 Is the number divisible by 3?

1)

268

417

3)

1 458

7

Part 3 Which numbers are divisible by 2? Circle them

41

58

162

247

358

683

685

714

805

901

1,025

1,714

2,058

Part 4 Which numbers are divisible by 3? Circle them

73

58

84

105

215

324

515

645

683

729

806

1,358

2,355

5,484

Adding Decimals - Regrouping

Questions

Use the standard algorithm to solve the addition problems below

1) $\begin{array}{r} 63.722 \\ + 25.543 \\ \hline \end{array}$	2) $\begin{array}{r} 65.458 \\ + 23.323 \\ \hline \end{array}$	3) $\begin{array}{r} 38.345 \\ + 26.537 \\ \hline \end{array}$	4) $\begin{array}{r} 35.256 \\ + 41.632 \\ \hline \end{array}$
5) $\begin{array}{r} 20.454 \\ + 17.335 \\ \hline \end{array}$	6) $\begin{array}{r} 50.528 \\ + 7.000 \\ \hline \end{array}$	7) $\begin{array}{r} 28.265 \\ + 17.632 \\ \hline \end{array}$	8) $\begin{array}{r} 66.574 \\ + 29.213 \\ \hline \end{array}$
9) $\begin{array}{r} 192.673 \\ + 325.235 \\ \hline \end{array}$	10) $\begin{array}{r} 374.214 \\ + 53.523 \\ \hline \end{array}$	11) $\begin{array}{r} 103.300 \\ + 20.000 \\ \hline \end{array}$	12) $\begin{array}{r} 652.514 \\ + 95.337 \\ \hline \end{array}$

Part 2

Answer the word problems below

1) Neill just ran a 200m race. He ran the first 100m in 12.326 seconds and the second 100m in 13.63 seconds. How long did it take him to finish the race?



2) Erica's pet snake was 17.425cm long when she got it. The snake grew 4.39cm in the last year. How long is the snake now?



Multiplication - 2 x 2 Digits

Questions

Use the standard algorithm to solve the multiplication problems below

1)			
		6	3
	x		9

2)			
		8	8
	x	5	4

3)			
		4	6
	x	8	3

4)			
		4	8
	x	3	7

5)			
		8	5
	x	7	8

7)			
		8	3
	x	6	9

7)			
		8	3
	x	6	9

8)			
		3	9
	x	6	3

Part 2

Solve the word problems below

1) Joseph is planning a group trip to a sporting event. He has 31 people going to the event and each person is paying \$64. How much money is Joseph collecting from everyone?



2) Aria hands out a lot of candy on Halloween. She decided to buy 23 boxes of candy. Each box has 95 candies in it. How many candies did she buy in total?



Multiplication - 2 x 2 Digits**Part 1**

Use the standard algorithm to solve the multiplication problems below

1)
$$\begin{array}{r} 67 \\ \times 53 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 55 \\ \times 33 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 85 \\ \times 62 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 24 \\ \times 15 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 78 \\ \times 44 \\ \hline \end{array}$$

6)
$$\begin{array}{r} 67 \\ \times 54 \\ \hline \end{array}$$

8)
$$\begin{array}{r} 76 \\ \times 95 \\ \hline \end{array}$$

9)
$$\begin{array}{r} 38 \\ \times 22 \\ \hline \end{array}$$

10)
$$\begin{array}{r} 78 \\ \times 25 \\ \hline \end{array}$$

11)
$$\begin{array}{r} 48 \\ \times 67 \\ \hline \end{array}$$

12)
$$\begin{array}{r} 52 \\ \times 41 \\ \hline \end{array}$$

13)
$$\begin{array}{r} 64 \\ \times 37 \\ \hline \end{array}$$

14)
$$\begin{array}{r} 72 \\ \times 56 \\ \hline \end{array}$$

15)
$$\begin{array}{r} 68 \\ \times 53 \\ \hline \end{array}$$

Part 2

Solve the word problems below

- 1) Harper played 42 games of basketball last season. She scored 17 points per game. How many points did she score in total for the season?



- 2) Brianna blinks 18 times a minute. How many times does she blink in one hour?



Front-End Estimation - Multiplication Using Decimals**Questions**

Use front-end estimation to round to the nearest whole number

1) Question	$5.31 \times 5 = ?$
Front-End Estimation Version	$5 \times 5 = 25$

2) Question	$8.82 \times 7 = ?$
Front-End Estimation Version	_____ $\times$ _____ = _____

3) Question	$6.31 \times 4 = ?$
Front-End Estimation Version	_____ $\times$ _____ = _____

4) Question	$9.87 \times 8 = ?$
Front-End Estimation Version	_____ $\times$ _____ = _____

5) Question	$2.5 \times 2 = ?$
Front-End Estimation Version	_____ $\times$ _____ = _____

6) Question	$19.48 \times 4 = ?$
Front-End Estimation Version	_____ $\times$ _____ = _____

7) Question	$22.13 \times 9 = ?$
Front-End Estimation Version	_____ $\times$ _____ = _____

8) Question	$29.94 \times 6 = ?$
Front-End Estimation Version	_____ $\times$ _____ = _____

Front End Estimation - Becky's Shop

Becky runs a bakery where she sells bread, muffins, and cookies. She always uses front-end estimation when charging her customers. They appreciate it because the final price is always underestimated.

Menu	Cost
Bread	\$3.19
Muffins	\$2.25
Cookies	\$1.49

Questions

Use front-end estimation to calculate how much customers owe Becky

1) One customer purchased 3 loaves of bread and 2 muffins. How much did Becky charge them?

2) A customer ordered 2 loaves of bread. How much do they owe Becky?

3) A customer ordered 5 of each item on the menu. How much do they owe Becky?

4) A customer used a \$20 bill to buy 4 loaves of bread and 3 cookies. How much change does Becky owe them?

5) A customer ordered 4 muffins and 4 cookies. The customer right after said they wanted the same thing. How much did Becky earn on the 2 sales?

Multiplication - 1-Digit Multiplier

Part 1

Use the standard algorithm to solve the multiplication problems below

1)					
	1	3	.	2	7
x					2

2)					
		5	.	4	7
x					3

3)					
	4	2	.	4	6
x					5

4)					
	3	6	.	6	
x					8

				5	6
					6

6)					
	3	2	.	8	9
x					7

Part 2

Use the standard algorithm to solve the multiplication problems below

1) 5.14 $\times 5$	2) 7.37 $\times 3$	3) 2.47 $\times 7$	4) 5.1 $\times 9$	5) 3.1 $\times 8$
6) 9.78 $\times 2$	7) 5.52 $\times 4$	8) 7.26 $\times 6$	9) 6.48 $\times 5$	10) 7.43 $\times 8$

Multiplication - 2-Digit Multipliers - Earnings**Questions**

Solve the word problems below

Kevin is a high-school student who just started a new job. He is excited to start earning money, so he is calculating how much he will make. A schedule of his 6 weeks of work is listed below.



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Hours	13	15	21	22	12	

- 1) For his first week of work, Kevin will earn only \$9.25 per hour because he is just being trained. How much will he earn in week 1?
- 2) For his second week of work, Kevin begins earning \$14.75 per hour. How much will he earn in week 2?
- 3) How much will Kevin earn in week 3 if he continues earning \$14.75 per hour?
- 4) If Kevin continues earning \$14.75 for weeks 2-6, how much money will he make in his first 6 weeks?



Division - Decimal Numbers

Questions

How many times you can divide the bigger number by the smaller number

1)
$$\begin{array}{r} \overline{2 4.22} \\ 2 \overline{) 4.22} \end{array}$$

2)
$$\begin{array}{r} \overline{3 9.63} \\ 3 \overline{) 9.63} \end{array}$$

3)
$$\begin{array}{r} \overline{2 8.48} \\ 2 \overline{) 8.48} \end{array}$$

4)
$$\begin{array}{r} \overline{4 8.60} \\ 4 \overline{) 8.60} \end{array}$$

5)
$$\begin{array}{r} \overline{4 4.88} \\ 4 \overline{) 4.88} \end{array}$$

7)
$$\begin{array}{r} \overline{2 6.39} \\ 2 \overline{) 6.39} \end{array}$$

8)
$$\begin{array}{r} \overline{6 6.48} \\ 6 \overline{) 6.48} \end{array}$$

Part 2

Use an area model to solve the word problem

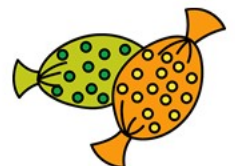
1) An ice cream tub has 2.07kg of ice cream in it. There are 9 servings of ice cream.

a) How many kg of ice cream are there per serving?

b) How many grams are in each serving?



2) A bag of 8 candies weighs 184g. How much does each candy weigh?



Division - Decimal Word Problems

Questions

Solve the word problems below

1) Tim bought 6 of the same candies for \$6.48. How much did each candy cost?



2) Shannon bought 8 raffle tickets for \$4.24. How much was each ticket?



3) Leah bought 5 coffees for her friends. One coffee cost her \$10.45. How much money did each coffee cost?



4) Sam paid \$9.36 for 3 ice cream treats. How much did each treat cost?



Dividing Decimals - Scaling by 10

We can make a division statement easier by scaling it to make both numbers whole numbers.

Example:

$70.5 \div 0.5$ can be scaled by 10 (multiply by 10), so that the question is $705 \div 5 = 141$, therefore, $70.5 \div 0.5 = 141$

***When we scale numbers in a number sentence, we have to scale them by the same number for the sentences to be equivalent.

Question: Scale the division sentence by 10 and then solve

1) Original Question	$10.5 \div 0.5 =$
Scaled by 10	
2) Original Question	$\quad \div 0.3 =$
Scaled by 10	
3) Original Question	$8.8 \div \quad =$
Scaled by 10	
4) Original Question	$12.6 \div 0.6 =$
Scaled by 10	
5) Original Question	$21.7 \div 0.7 =$
Scaled by 10	

Dividing Decimals - Scaling by 100

Questions

Scale the division sentence by 100 and then solve

1) Original Question	$2.34 \div 0.18 =$
Scaled by 10	
2) Original Question	$5.5 \div 0.25 =$
Scaled by 10	
3) Original Question	$6.12 \div 0.36 =$
Scaled by 10	
4) Original Question	$\quad \div \quad =$
Scaled by 10	

Word Problems

Answer the word problems below

1) Roman bought 9.12kg of canned tomatoes. Each can holds 0.48kg. How many cans did he buy?



2) Lillian returned a bag of cans and received \$4.85. She received \$0.05 for each can she returned. How many cans did she return?



Mental Math - Calculating Percentages - 25% and 50%

Percents represent a rate out of 100 in relation to a whole. 50% represents half of a number and 25% is a quarter of a number.

Steps – Calculating 50%...

1. Find half of the number

Example – 50% of 148

1. Divide the number 148 in half
($148 \div 2 = 74$)
2. 50% of 148 is 74

Steps – Calculating 25%

1. Find out what 50% of the number is by halving the number
2. Halve the number one more time

Example – 25% of 188

1. $188 \div 2 = 94$
2. $94 \div 2 = 47$

Part 1 Find half of the numbers below?

1) 24 _____

3) 76 _____

4) 128 _____

15 _____

6) 212 _____

7) 264 _____

8) 3 _____

9) 410 _____

10) 550 _____

11) 636 _____

12) 844 _____

Part 2 Fill in the table below

	Number	50%	25%
1)	100		
2)	200		
3)	240		
4)	164		
5)	188		
6)	264		

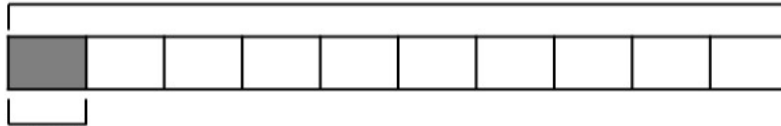
	Number	50%	25%
7)	348		
8)	414		
9)	560		
10)	644		
11)	828		
12)	940		

Mental Math - Calculating Percentages - Visuals

When we want to find the percent of a number, scaling up and down is the best way. For example, a shirt costs \$80 at regular price. To calculate a sale price, we can scale 10% up and down. First, 10% of 80 is 8 which means 20% is 16 and 30% is 24.



\$80

10%
\$8

Practice the problems below

- 1) Tom is shopping for new shoes. He finds a pair he likes for \$70.00 that are on sale for 15% off. How much will the shoes cost before tax?



- 2) Lindsay is out shopping for a new winter coat. She finds one for \$90.00 plus an additional 20% off. How much will the coat cost before tax?



- 3) Joe brings \$100 to the mall to buy some new speakers. He finds some for \$78.00 with an additional 35% off.

- How much will the speakers cost before tax?
- With a sales tax of 5%, how much will the speakers cost?
- How much of the \$100 will Joe have when he leaves the mall?



Determining Sales Tax

When we pay for something, we need to pay tax. **Tax** is an extra cost placed on a good or service that goes to the government. In Alberta, we pay 5% GST.

When we purchase something, we should add 5% to the total price so we know if we can afford it. We can do this by using a calculator or by estimating. Follow these steps:

Estimating Sales Tax

- 1) Divide the price by 10 (example - $\$32.00 \div 10 = \3.20) to determine 10% of the cost
- 2) We can divide that number in half to find another 5% (example = $\$3.20 \div 2 = \1.60)
- 3) Add the two amounts to the product price to find the total price ($\$32.00 + \$1.00 = \$33.00$)

	Alberta	British Columbia	New Brunswick	Saskatchewan
		12%	15%	11%

Questions

Divide the price by 10 and then divide that answer by 2

#	Product Price	10%	5% (half of 10%)	Total Price
1	\$20.00	\$2.00	\$1.00	\$21.00
2	\$10.00			
3	\$30.00			
4	\$40.00			
5	\$50.00			
6	\$60.00			
7	\$25.00			
8	\$100.00			
9	\$42.00			
10	\$88.00			

Determining Sales Tax - Word Problems

Questions

Answer the word problems below

1) Kayden has a \$10 bill and wants to know if he can afford a burger and fry meal that costs \$9.00 before taxes. Calculate the total cost of the meal after adding 5% tax. Can he afford the meal?

Bonus: How much money does he have left?



2) Dexter wants to buy a video game. He has \$100 and the game costs \$95.00 before tax. How much will he have left after adding 5% tax?

Bonus: How much money will he have left if he has the game?



3) Mya is thinking of purchasing a new pair of headphones that cost \$62.00. She only has \$65.00. Does she have enough money to buy them after a 5% tax is added? Explain.



Word Problems - Percentages

Questions

Answer the word problems below

- 1) The grade 7's voted on where their class trip would be. There were 5 options and students could only vote for one option. The results are below:

- a) What percentage of students chose Mini-golf?

- b) If there were 20 grade 7 students, how many chose going to the amusement park?

Movie Theatre	15%
Amusement Park	23%
Hockey Arena - Skating	18%
Shopping Mall	31%
Mini-Golf	



- 2) In a math test, the percentage of grade 7 students who scored an A, B, C, D, and F is listed below.

- a) What percentage of students received an F?

A	22%
B	35%
C	27%
D	12%
F	

- b) If there were 50 students who wrote the test, how many students received an F?



- 3) Ryan surveyed his grade 7 classmates asking what their favourite food is. He tallied his results as percentages.

- a) What percentage of students liked pizza the best?

- b) If Ryan surveyed 25 students, how many chose pizza?

Pizza	
Subs	21%
Steak	12%
Chicken	18%
Tacos	17%



Name: _____

76

Curriculum Connection
N.3**Class List - Decimal, Fraction, Percent**

Mrs. Hansen just finished marking a math test. Her class list with the results of the test are below. She has simplified some of the fractions, and some students wrote a different test, meaning they are out of a different total.

Grades

A = 80% and up

B = 70%-79%

C = 60% – 69%

D = 50% – 59%

F = 49% or less

Questions

Fill in the class list



Student Name	Mark	Decimal	Percent	Grade
Madison	3/4			
Stella	10/10			
Matthew	1/10			
Eli	7/10			
John	1/2			
Kai	1/4			
Ivy	4/4			
Everly	1/5			
Bella	75/100			
Skylar	95/100			
Leah	8/10			
Roman	1/8			
Adrian	1/10			
Easton	4/5			
Savannah	75			

Sport Statistics - Fractions, Decimals, and Percents

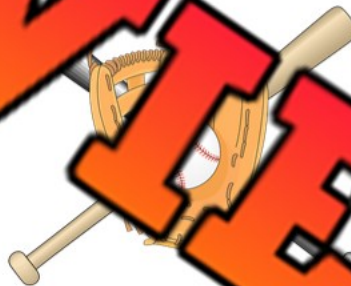
Questions

Baseball Statistics – 2020 Regular Season Offensive Statistics

1) Mike Trout had 200 at bats in 2020. He had $\frac{56}{200}$ hits, $\frac{42}{200}$ runs, and $\frac{18}{200}$ home runs. This means for every 200 at bats, he would have 56 hits, 42 runs, and 18 home runs.

	Hits	Runs	Home Runs
Total Hits	$\frac{56}{200}$	$\frac{42}{200}$	$\frac{18}{200}$
Decimal to thousandths			
Percent			

a) If Trout had 100 at bats, how many hits would he have? _____



2) Mookie Betts had 300 at bats in 2020. He had $\frac{97}{300}$ hits, $\frac{57}{300}$ runs, and $\frac{27}{300}$ home runs. This means for every 300 at bats, he would have 97 hits, 57 runs, and 27 home runs.

	Hits	Runs	Home Runs
Totals - Fraction	$\frac{97}{300}$	$\frac{57}{300}$	$\frac{27}{300}$
Decimal to thousandths			
Percent			

a) If Betts had 100 at bats, how many hits would he have? _____

Terminating and Repeating decimal

Terminating Decimal

- Decimals that come to an end

Example - $2/4 = 0.5$

Repeating Decimal

- Decimals that never end

Example - $2/3 = 0.66666... \text{ or } 0.\overline{6}$

We can use a line over the repeating number or number pattern to show it repeats forever

Part 1

Write the decimal a repeating or terminating decimal?

1) 0	6) 0.9
2) 0.3	7) $0.\overline{72}$
3) $0.\overline{7}$	8) $0.41\overline{6}$
4) 0.25	9) 0.15
5) $0.\overline{6}$	10) 10

Part 2

Write the decimals below - use a line to show repeating decimals

1) $\frac{1}{3} = 0.\overline{3}$	2) $\frac{6}{10} =$	3) $\frac{1}{2} =$
4) $\frac{2}{3} =$	5) $\frac{8}{11} =$	6) $\frac{3}{9} =$
7) $\frac{1}{4} =$	8) $\frac{11}{12} =$	9) $\frac{4}{12} =$
10) $\frac{3}{5} =$	11) $\frac{4}{6} =$	12) $\frac{1}{12} =$
13) $\frac{5}{8} =$	14) $\frac{1}{8} =$	15) $\frac{7}{8} =$

Name: _____

80

Curriculum Connection
N.4

Terminating and Repeating decimal

Part 1

Write the decimal number as it would show on a calculator.
Stop after 8 decimal points.

1) $0.\overline{4}$	
2) $0.\overline{001}$	
3) $0.\overline{7}$	
4) $0.\overline{9}$	
5) $0.\overline{6}$	

6) 0.9	
7) $0.\overline{285714}$	
8) 0.265615	
9) $0.\overline{85}$	
10) $0.\overline{27}$	

Part 2

Write the following numbers with terminating and repeating decimals

Terminating Decimals	Repeating Decimals

Part 3

Define the terms below in your own words

Terminating Decimal	
Repeating Decimal	

Patterns Found With Repeating Decimals

We can find patterns between fractions and their repeating decimals.

For example:

Using a denominator of 7 will always:

- produce 6 repeating digits
- digits will be 142857 in a cyclic pattern

Example	
$2/7 = 0.\overline{285714}$	$4/7 = 0.\overline{571428}$
$3/7 = 0.\overline{428571}$	$5/7 = 0.\overline{714285}$

Question Discover the patterns with each of the fraction/decimal relationships

1)	$1/11 =$	$2/11 =$	$3/11 =$	$4/11 =$	$5/11 =$
What patterns did you notice about the answers?					
2)	$1/9 =$	$3/9 =$	$7/9 =$	$8/9 =$	
What patterns did you notice about the answers?					
3)	$1/99 =$	$2/99 =$	$3/99 =$	$4/99 =$	
What patterns did you notice about the answers?					
4)	$1/999 =$	$3/999 =$	$5/999 =$	$7/999 =$	$9/999 =$
What patterns did you notice about the answers?					

Patterns Found With Repeating Decimals

Part 1

Fill in the table to learn more about patterns with repeating decimals

1)	$3/9 =$	$3/90 =$	$3/900 =$	$3/9000 =$
2)	$1/6 =$	$1/60 =$	$1/600 =$	$1/6000 =$
3)	$4/9 =$	$4/90 =$	$4/900 =$	$4/9000 =$
4)	$6/11 =$	$6/110 =$	$6/1100 =$	$6/11000 =$
5)	$5/7 =$	$5/70 =$	$5/700 =$	$5/7000 =$

Part 2

Use the information to answer the questions below. No Calculators!

Denominator of the fraction	Pattern in the Repeating Decimal	Example
9	- Single repeating digit - The numerator is the repeating digit	$\frac{5}{9} = 0.\overline{5}$
90	- Single repeating digit - Numerator is the repeating digit - Add a zero before the repeating digit	$\frac{5}{90} = 0.0\overline{5}$

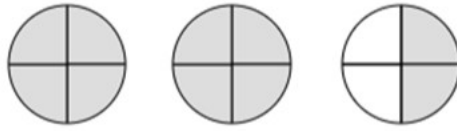
	Fraction	Repeating Decimal
1)	$\frac{1}{9}$	
2)	$\frac{2}{9}$	
3)	$\frac{4}{9}$	
4)	$\frac{7}{9}$	
5)	$\frac{8}{9}$	
6)	$\frac{8}{90}$	

	Repeating Decimal	Pattern
1)	$0.\overline{3}$	
2)	$0.\overline{6}$	
3)	$0.0\overline{5}$	
4)	$0.00\overline{8}$	
5)	$0.0000\overline{2}$	
6)	$0.000\overline{4}$	

Mixed Numbers

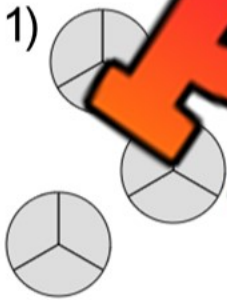
A **mixed fraction** displays a whole number and a fraction to represent a value.

For example, if you have 2 full pizzas and $\frac{2}{4}$ of a pizza, the mixed fraction would be: $2 \frac{2}{4}$

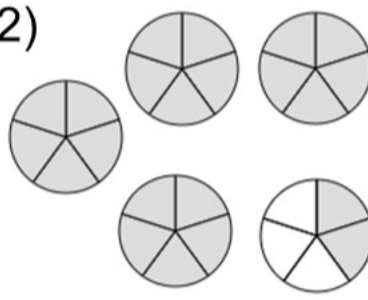
**Question**

Write the fraction beside the visual fractions

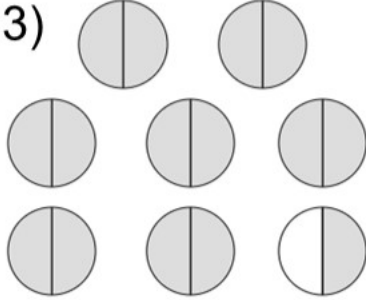
1)



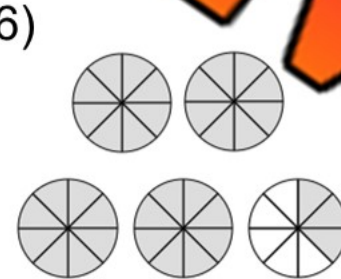
2)



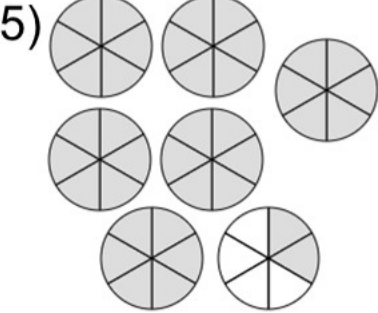
3)



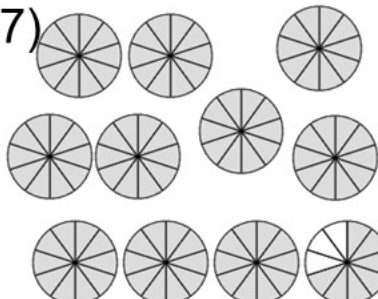
6)



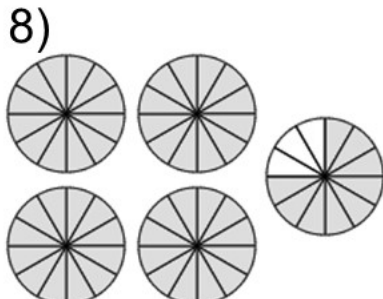
5)



7)



8)



Improper Fractions

Questions

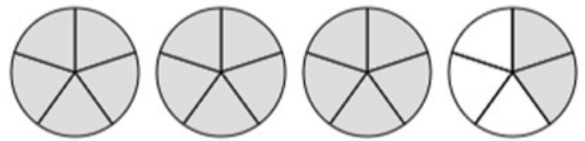
Convert the mixed numbers into improper fractions

1)



$$4 = \underline{\hspace{2cm}}$$

2)



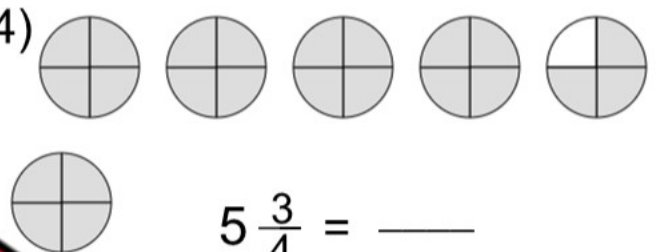
$$3 \frac{2}{5} = \underline{\hspace{2cm}}$$

3)



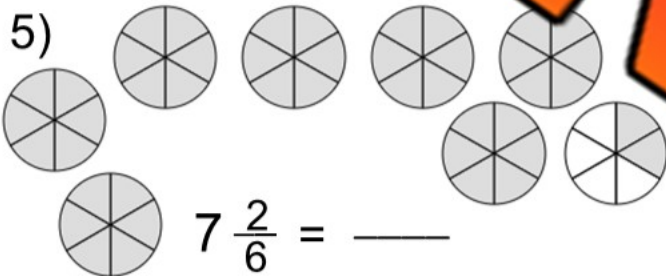
$$6 \frac{1}{2} = \underline{\hspace{2cm}}$$

4)



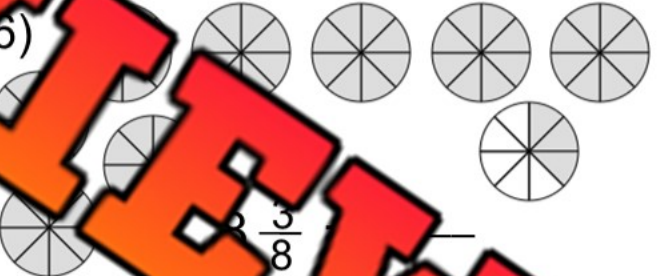
$$5 \frac{3}{4} = \underline{\hspace{2cm}}$$

5)



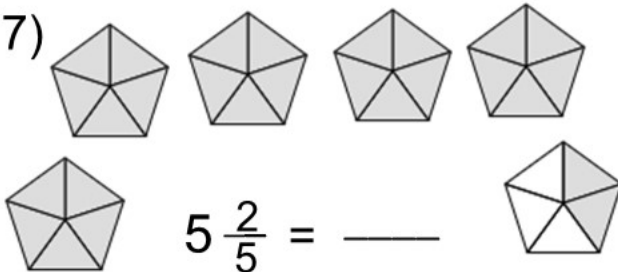
$$7 \frac{2}{6} = \underline{\hspace{2cm}}$$

6)



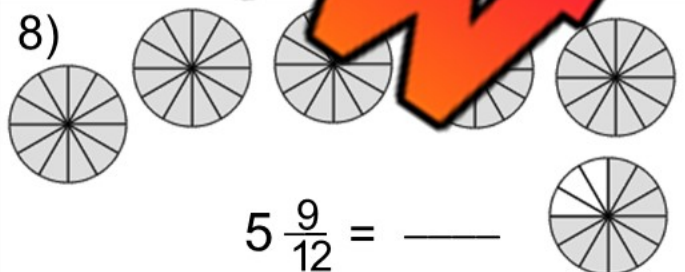
$$8 \frac{3}{8} = \underline{\hspace{2cm}}$$

7)



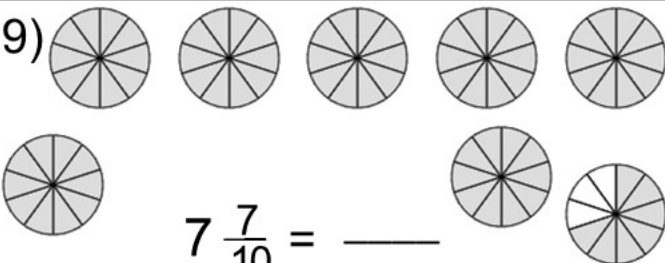
$$5 \frac{2}{5} = \underline{\hspace{2cm}}$$

8)



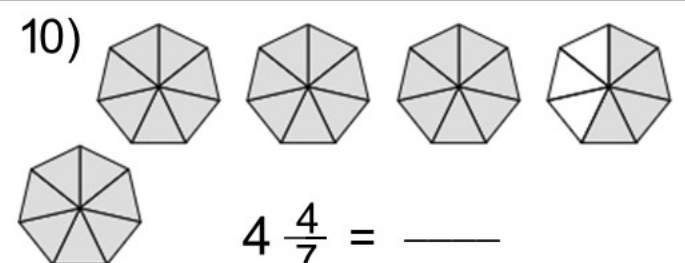
$$5 \frac{9}{12} = \underline{\hspace{2cm}}$$

9)



$$7 \frac{7}{10} = \underline{\hspace{2cm}}$$

10)

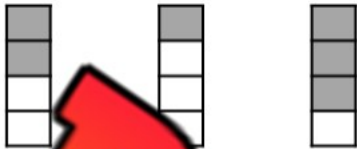


$$4 \frac{4}{7} = \underline{\hspace{2cm}}$$

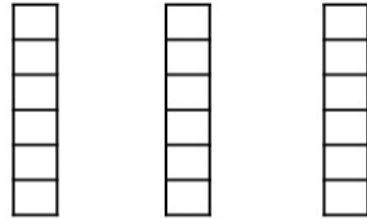
Adding Fractions with Common Denominators**Questions**

Add the fractions below using the models

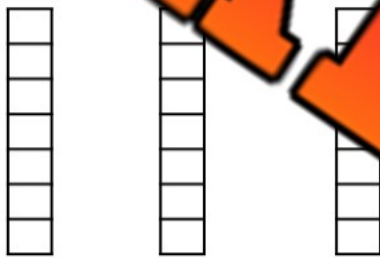
1) $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$



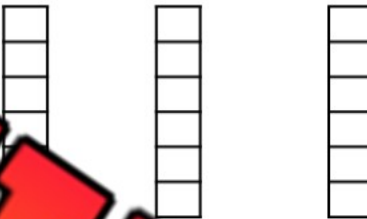
2) $\frac{4}{6} + \frac{1}{6} = \underline{\hspace{1cm}}$



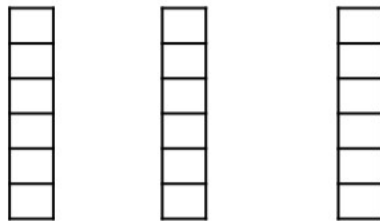
3) $\frac{2}{7} + \frac{1}{7} = \underline{\hspace{1cm}}$



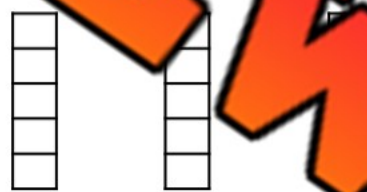
4) $\frac{2}{6} + \frac{2}{6} = \underline{\hspace{1cm}}$



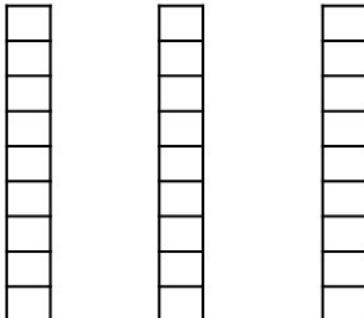
5) $\frac{4}{6} + \frac{1}{6} = \underline{\hspace{1cm}}$



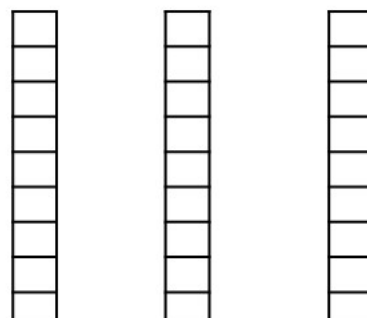
6) $\frac{3}{5} + \frac{2}{5} = \underline{\hspace{1cm}}$



7) $\frac{3}{9} + \frac{2}{9} = \underline{\hspace{1cm}}$



8) $\frac{5}{9} + \frac{3}{9} = \underline{\hspace{1cm}}$



Adding Fractions with Common Denominators**Questions**Add the fractions below and write the answer as an improper fraction and mixed number

1) $\frac{3}{4} + \frac{5}{4} = \frac{8}{4}$ or $2\frac{0}{4}$

2) $\frac{5}{6} + \frac{2}{6} = \text{---} \text{---}$

3) $\frac{2}{5} + \frac{3}{5} = \text{---} \text{---}$

4) $\frac{6}{9} + \frac{5}{9} = \text{---} \text{---}$

5) $\frac{3}{2} + \frac{2}{2} = \text{---} \text{---}$

6) $\frac{3}{3} + \frac{1}{3} = \text{---} \text{---}$

7) $\frac{6}{3} + \frac{2}{3} = \text{---} \text{---}$

8) $\frac{5}{8} + \frac{3}{8} = \text{---} \text{---}$

9) $\frac{6}{6} + \frac{4}{6} = \text{---} \text{---}$

10) $\frac{4}{6} + \frac{3}{6} = \text{---} \text{---}$

11) $\frac{4}{4} + \frac{2}{4} = \text{---} \text{---}$

12) $\frac{9}{4} + \frac{5}{4} = \text{---} \text{---}$

13) $\frac{5}{8} + \frac{5}{8} = \text{---} \text{---}$

14) $\frac{9}{7} + \frac{6}{7} = \text{---} \text{---}$

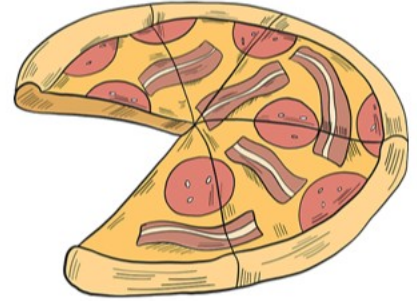
Cooking with Fractions - Adding



Questions

Solve the word problems

1) Kelly is making 5 pizzas. She needs $\frac{2}{3}$ of a cup of flour for each pizza. How many cups of flour does she need in total?



2) A cookie recipe calls for $\frac{3}{4}$ of a cup of sugar and $\frac{1}{2}$ of a cup of brown sugar. How much sugar in total does the cookie recipe use?



3) A smoothie calls for $\frac{3}{5}$ of a banana, $\frac{8}{10}$ of a peach, and $\frac{1}{2}$ of a kiwi. How many pieces of fruit are in the smoothie?



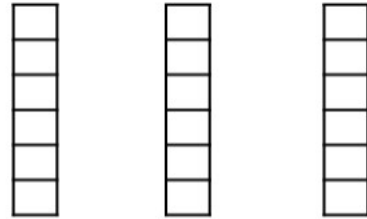
Subtracting Fractions - Common Denominators**Questions**

Subtract the fractions below using the models

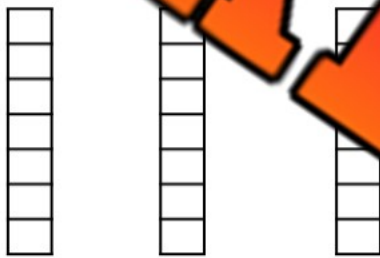
1) $\frac{4}{4} - \frac{2}{4} = \frac{2}{4}$



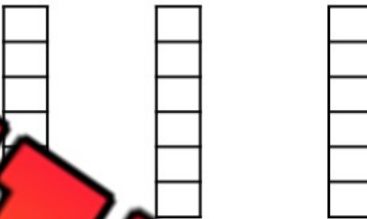
2) $\frac{5}{6} - \frac{3}{6} = \underline{\hspace{1cm}}$



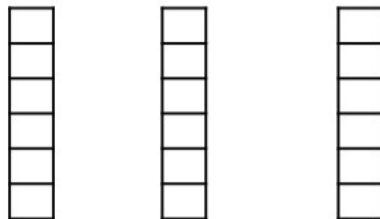
3) $\frac{5}{7} - \frac{2}{7} = \underline{\hspace{1cm}}$



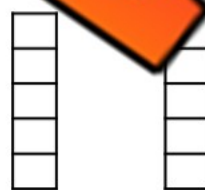
4) $\frac{6}{6} - \frac{3}{6} = \underline{\hspace{1cm}}$



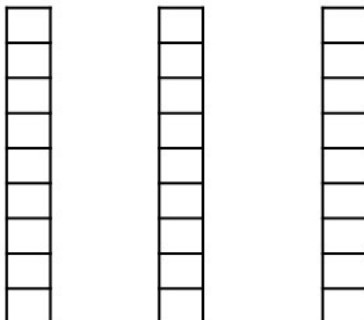
5) $\frac{5}{6} - \frac{1}{6} = \underline{\hspace{1cm}}$



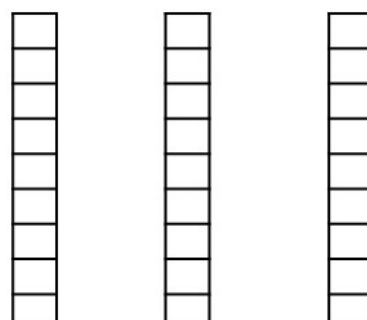
6) $\frac{4}{5} - \frac{2}{5} = \underline{\hspace{1cm}}$



7) $\frac{8}{9} - \frac{3}{9} = \underline{\hspace{1cm}}$



8) $\frac{7}{9} - \frac{2}{9} = \underline{\hspace{1cm}}$

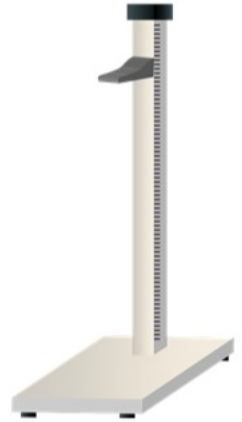


Subtracting Fractions - Word Problems

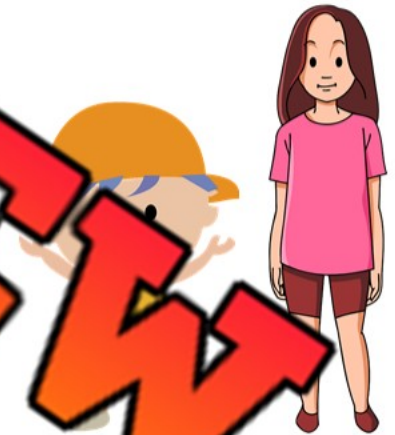
Questions

Solve the word problems

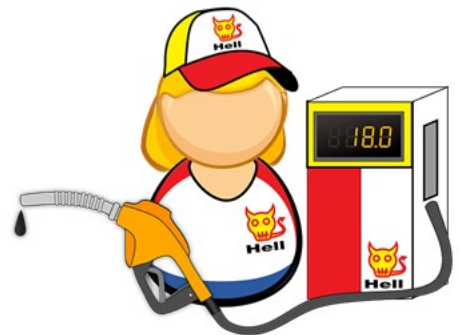
1) Brittney's father is $6\frac{1}{4}$ feet tall. Brittney is $5\frac{2}{4}$ feet tall. How much taller is Brittney's father?



2) Nathan is $12\frac{1}{4}$ years old. His older sister is $\frac{64}{4}$ years old. How much older is Nathan's sister than he is?



3) A car's gas tank can hold $30\frac{2}{5}$ litres of gas. The car has $\frac{75}{5}$ litres of gas in it. How many more litres can the gas tank hold until it is full?



Subtracting Fractions with Unlike Denominators**Questions**

Create common denominators and then subtract the fractions below

1) $\frac{2}{4} - \frac{1}{2} = \frac{2}{4} - \frac{2}{4} = \frac{0}{4}$

2) $\frac{3}{4} - \frac{2}{8} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

3) $\frac{1}{2} - \underline{\quad} = \underline{\quad}$

4) $\frac{5}{6} - \frac{1}{2} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

5) $\frac{3}{4} - \frac{3}{8} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

6) $\frac{10}{14} - \frac{3}{7} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

7) $\frac{5}{6} - \frac{6}{12} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

8) $\frac{1}{6} - \underline{\quad} = \underline{\quad}$

9) $\frac{10}{15} - \frac{2}{5} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

10) $\frac{12}{20} - \frac{8}{40} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

11) $\frac{9}{12} - \frac{2}{4} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

12) $\frac{10}{18} - \frac{5}{9} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

13) $\frac{3}{4} - \frac{5}{16} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

14) $\frac{4}{7} - \frac{6}{14} = \underline{\quad} - \underline{\quad} = \underline{\quad}$

Adding Integers - Zero Pairs



+	+	+	-	-	-
+	+	+	-	-	-
+	+				

8 + (-6) = 2



Question

Cross out the zero pairs. What is left?

1) $\begin{matrix} (+) \\ (+) (+) (+) \\ (+) (+) (+) \end{matrix}$ _____ + _____ = _____	2) $\begin{matrix} (+) (+) (+) \\ (+) (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \end{matrix}$ _____ + _____ = _____	3) $\begin{matrix} (+) (+) (+) \\ (+) (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \\ (-) (-) (-) \end{matrix}$ _____ + _____ = _____
4) $\begin{matrix} (+) (+) (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \\ (-) (-) \end{matrix}$ _____ + _____ = _____	5) $\begin{matrix} (+) (+) (+) \\ (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \\ (-) (-) \end{matrix}$ _____ + _____ = _____	6) $\begin{matrix} (+) (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \end{matrix}$ _____ + _____ = _____
7) $\begin{matrix} (+) (+) (+) \\ (+) (+) (+) \\ (+) (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) \end{matrix}$ _____ + _____ = _____	8) $\begin{matrix} (+) (+) (+) \\ (+) (+) (+) \\ (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \\ (-) (-) \end{matrix}$ _____ + _____ = _____	9) $\begin{matrix} (+) (+) (+) \\ (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \\ (-) (-) (-) \end{matrix}$ _____ + _____ = _____
10) $\begin{matrix} (+) (+) (+) \\ (+) (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \\ (-) (-) \end{matrix}$ _____ + _____ = _____	11) $\begin{matrix} (+) (+) (+) \\ (+) (+) (+) \\ (+) (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) \end{matrix}$ _____ + _____ = _____	12) $\begin{matrix} (+) (+) (+) \\ (+) (+) \end{matrix}$ $\begin{matrix} (-) (-) (-) \\ (-) (-) (-) \\ (-) (-) (-) \end{matrix}$ _____ + _____ = _____

Golf - Adding Integers - Zero Pairs

Word Problems

Solve the word problems below using counter chips



- 1) Alice played 2 rounds of golf. Her final scores for both rounds are on the scorecard. What is the total score for the two rounds?



Round	Score
1	-6
2	+9
Total Score	

Equation: _____ + _____ = _____

- 2) Theo played 3 rounds of golf. His final scores for all three rounds are on the scorecard. What is his total score?

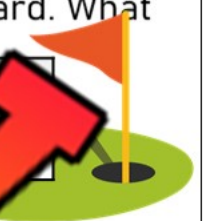


Round	Score
1	-5
2	-3
3	+5
Total Score	

Equation: _____ + _____ + _____ = _____

- 3) Leah played 4 rounds of golf. Her final scores are on the scorecard. What is her total score?

R1	R2	R3	R4
-4	4	-2	-4



Equation: _____ + _____ + _____ + _____ = _____

- 4) Miles played 4 rounds of golf. His final scores are written on the scorecard. What is his total score?

R1	R2	R3	R4	Total Score
8	3	-6	-5	



Equation: _____ + _____ + _____ + _____ = _____

Name: _____

120

Curriculum Connection
N.6

Adding Integers - Using Number Lines

-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Part 1

Solve the questions below

1) $5 + (-3) + 2$

6) $-15 + 11 + (-5)$

2) $1 + (-6) + 3$

7) $17 + (-6) + (-8)$

3) $-12 + 5 + (-3)$

8) $-15 + (-5) + 11 + (-7)$

4) $13 + (-6) + (-4)$

9) $11 + 2 + (-7) + (-5)$

5) $-11 + 4 + (-2)$

10) $1 + (-4) + 5 + 7$

Part 2

Answer the word problems below. Write the equation.

- You take 9 steps forwards, 7 steps backwards, another 5 steps backwards, and another 4 steps forwards. How many steps have you taken?
- The Big Dipper rollercoaster climbs straight up 30m above ground level before it drops 18m. Next, it climbs another 22m before it drops 17m. When the ride is over, the participants are how much higher than ground level?



Adding Integers - Rules

Adding Integers Rules

$\oplus + \oplus = \oplus$ Adding 2 positive integers will always give a positive answer

$\ominus + \ominus = \ominus$ Adding 2 negative integers will always give a negative answer

$\oplus + \ominus = \ominus$ Adding integers with different signs $\rightarrow$ use the larger number

$\oplus + \oplus = \oplus$ Adding integers with different signs $\rightarrow$ use the larger number

*** If integers have the same sign, add them and keep the sign

*** If integers have different signs, subtract them and use the sign of the larger number

Part 1 Use the rules to answer the 1-step questions below

1) $42 + (-13)$

6) $175 + (-121)$

2) $57 + (-66)$

5) $(-1) + (-136)$

3) $-132 + (-112)$

7) $1 + (-1)$

4) $(+33) + (+86)$

8) $-128 + (-3)$

Part 2 Simplify the multi-step questions and use the rules

1) $16 + (-11) + (-17)$

4) $42 + 35 + (-28) + (-1)$

2) $37 + (-26) + 28$

5) $68 + (-75) + (-33) + 91$

3) $-82 + (-42) + (-35)$

6) $-108 + 85 + (-72) + (132)$

Subtracting Integers - Keep, Flip, Change

Subtraction Integers Rules

To subtract integers, it is easiest to change the operation to addition and then follow the addition rules. We can do this by using the rule – Keep, Flip, Change. We keep the first number the same, flip the operation from subtraction to addition, and then change the third number's sign.

Example: $5 - (-6) = ?$ becomes $5 + 6 = 11$

Keep the
first
integer

Flip the
operation

Change the
sign of the next
integer

Part 1 Use the rules above to solve the problems

1) $8 - (-9) =$

6) $(+37) - (+41) =$

2) $24 - (-11) =$

7) $(-17) - (+23) =$

3) $(-11) - 8 =$

8) $0 - (-5) =$

4) $(-23) - 13 =$

9) $(-53) - (-) =$

5) $(-31) - (-12) =$

10) $88 - (-57) =$

Part 2 Answer the word problem below. Write the equation for each question

The highest recorded temperature on Earth is 56°C . The lowest recorded temperature is -89°C . What is the difference between these two temperatures?



Name: _____

123

Curriculum Connection
N.6

Subtracting Integers - Riddle

Questions

Write the letters above the answers at the bottom to solve the riddle

E) $10 - (-4) =$

N) $(+17) - (+30) =$

P) $(-15) - (-2) =$

E) $(+61) - (+38) =$

L) $(-18) - 7 =$

O) $(-36) - (-20) =$

N) $(-12) - 17 =$

E) $(-1) - (-2) =$

V) $43 - (-18) =$

A) $(+63) - (+53) =$

What begins with an E but only has one letter

10 -13_____
14 -29_____
61_____
23_____
-25_____
-16_____
0_____
15

Name: _____

125

Curriculum Connection
N.6

Subtracting Integers - Number Line

-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Part 1

Solve the questions below

1) $11 - () =$

6) $(-15) - 13 =$

2) $() - (-6) =$

7) $18 - (-6) =$

3) $(-18) - 11 =$

8) $(-18) - (-5) =$

4) $16 - (-7) =$

9) $(+) - (+3) =$

5) $(-19) - 8 =$

10) $(-6) - () =$

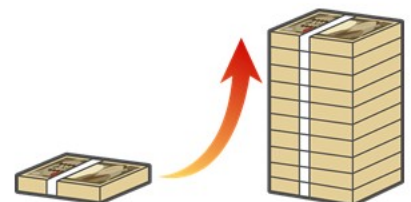
Part 2

Answer the word problems below. Write the equation and answer.

- 1) The winner of a golf tournament scored a -18 after four rounds. The 1st place golfer scored a $+26$. What is the difference between these two scores?

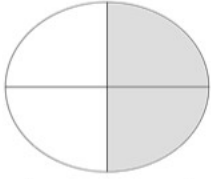


- 2) Colton and Logan both invested some of their money in the stock market. Colton lost $-\$138$ and Logan earned $+\$263$. What is the difference between their earnings and losses?

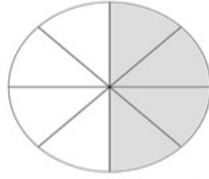


Equivalent Fractions

Equivalent fractions are fractions that have the same value. Visualize this...



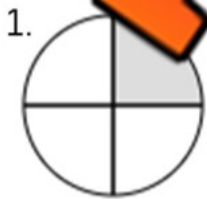
Pizza 1



Pizza 2

Your family orders large 2 pizzas. The first one is cut into only 4 slices. The second is cut into 8 slices. You could have 2 slices from pizza 1 and 4 slices from 2 and still have the same amount of pizza.

Question Shade in the fraction and decide if they are equivalent



$$\frac{1}{4}$$

Yes



$$\frac{3}{6}$$

No



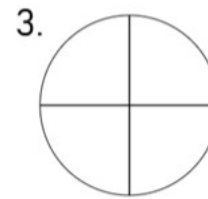
$$\frac{2}{6}$$

Yes



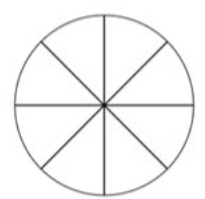
$$\frac{1}{3}$$

No



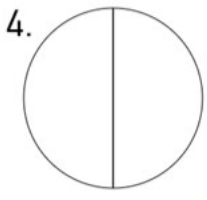
$$\frac{3}{4}$$

Yes



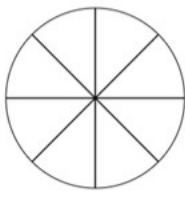
$$\frac{5}{8}$$

No



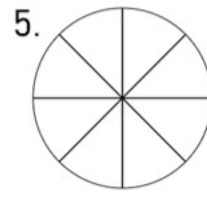
$$\frac{1}{2}$$

Yes



$$\frac{4}{8}$$

No



$$\frac{2}{8}$$

Yes



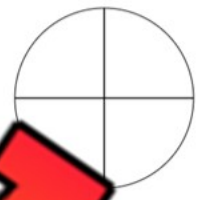
$$\frac{2}{4}$$

No



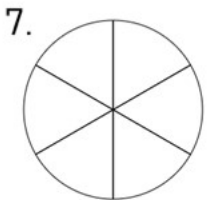
$$\frac{3}{3}$$

Yes



$$\frac{4}{4}$$

No



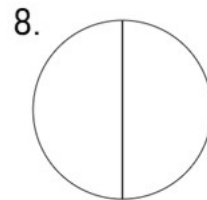
$$\frac{3}{6}$$

Yes



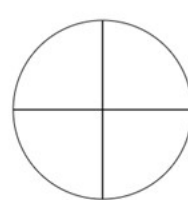
$$\frac{1}{3}$$

No



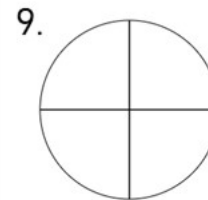
$$\frac{1}{2}$$

Yes



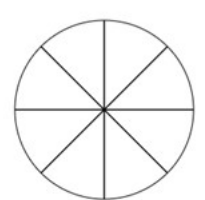
$$\frac{2}{4}$$

No



$$\frac{3}{4}$$

Yes



$$\frac{6}{8}$$

No

Equivalent Fractions

QuestionsCompare the fractions using $< > =$

1.



$$\frac{2}{6} \square \frac{4}{4}$$

2.



$$\frac{4}{8} \square \frac{6}{10}$$

3.



$$\frac{1}{5} \square \frac{2}{10}$$

4.



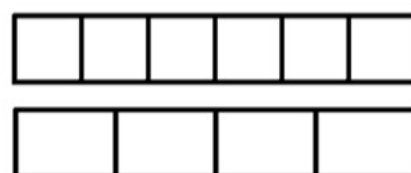
$$\frac{2}{3} \square \frac{3}{4}$$

5.



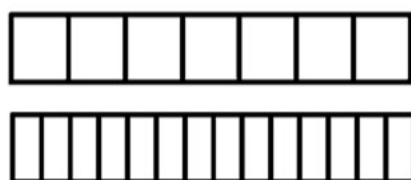
$$\frac{3}{12} \square \frac{1}{4}$$

6.



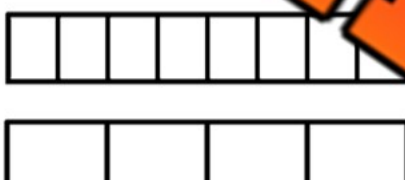
$$\frac{4}{6} \square \frac{2}{4}$$

7.



$$\frac{5}{7} \square \frac{8}{14}$$

8.



$$\frac{7}{8} \square \frac{3}{4}$$

9.



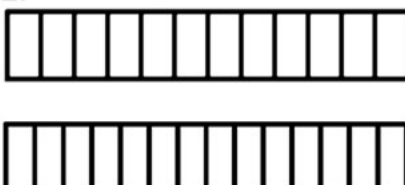
$$\frac{6}{8} \square \frac{4}{6}$$

10.



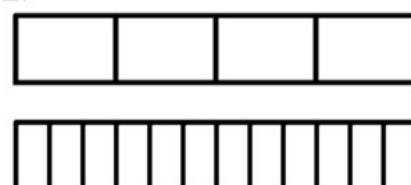
$$\frac{3}{5} \square \frac{6}{10}$$

11.



$$\frac{6}{12} \square \frac{7}{14}$$

12.



$$\frac{3}{4} \square \frac{8}{12}$$

Simplifying Fractions

Fractions can be equal, which means we can write the same fraction in many different ways. The best way to write a fraction is to simplify it to its lowest form.

How To Do It:

1. Write down the factors for both numbers.

Example: the number 6 has 4 factors: 6, 1, 2, 3

2. Find the greatest common factor (GCF) by circling the largest number that fits into both numbers.

3. Divide by GCF

Example

$\frac{25}{100}$ - Factors: 1, 5, 25
 100 - Factors: 1, 2, 4, 5, 10, 20, 25, 50, 100

$$\frac{25}{100} \div 25 = \frac{1}{4}$$



Questions

1) $\frac{8}{16} = \frac{\quad}{\quad}$

3) $\frac{12}{18} = \frac{\quad}{\quad}$

5) $\frac{36}{60} = \frac{\quad}{\quad}$

7) $\frac{14}{42} = \frac{\quad}{\quad}$

4) $\frac{25}{35} = \frac{\quad}{\quad}$

6) $\frac{21}{35} = \frac{\quad}{\quad}$

8) $\frac{16}{32} = \frac{\quad}{\quad}$

Simplifying Fractions - Matching

Questions

Draw a line from the fraction to its simplest form

Fraction

Simplest Form


$$\frac{8}{16}$$

$$\frac{5}{6}$$


$$\frac{4}{5}$$

$$\frac{4}{5}$$

$$\frac{13}{18}$$

$$\frac{6}{7}$$

$$\frac{35}{50}$$

$$\frac{8}{4}$$

$$\frac{36}{42}$$

$$\frac{9}{9}$$

$$\frac{24}{27}$$

$$\frac{1}{2}$$

$$\frac{8}{10}$$

$$\frac{7}{10}$$

PREVIEW

Simplifying Fractions - Alex's Homework

Questions

Alex answered the questions but didn't simplify enough. Help him out!

Question	Alex's Answer	Your Answer
1) Isabella baked 30 cookies. She gave away 20 of them. What fraction of cookies did she give away? 	20/30 or 10/15	
2) Zoe earned \$15 a week selling baked goods. She made \$15 of the \$60 she earned on Friday. What fraction of the money did she earn on Friday? 	15/60 or 3/12	
3) Ethan has 18 candies. 6 are blue and 12 are green. What fraction of the candies are blue? 	6/18 or 1/3	
4) A canteen sold 64 drinks today. They sold 24 sport drinks. What fraction of drinks were sport drinks? 	24/64 or 12/32	
5) Ella scored 16 points in her basketball game. Her team scored a total of 36 points. What fraction of total points did Ella score? 	16/36 or 8/18	

Generating Fractions Between Whole Numbers

Practice

List at least three fractions between the numbers

1)

1



2

Fractions

2)

2



3

Fractions

3)

4



5

Fractions

Word Problems

Solve the problems below

1) Daniel thinks $3\frac{3}{4}$ is between 2 and 3. Is he right? Explain why or why not.

2) Thomas said he has listed all the fractions between 1 and 2. Is he right? Explain why or why not. His list is written below.

$$1\frac{1}{8}, 1\frac{2}{8}, 1\frac{3}{8}, 1\frac{4}{8}, 1\frac{5}{8}, 1\frac{6}{8}, 1\frac{7}{8}, 1\frac{8}{8}$$

Comparing Decimals - Different Place Values

Part 1

Compare the following numbers

1) 0.15 < 0.112	6) 2.56 2.1
2) 0.52 0.321	7) 5.84 5.822
3) 0.192 0.18	8) 8.96 8.992
4) 0.457 0.45	9) 11.52 11.247
5) 0.571 0.59	10) 15.227 15.32

Part 2

Answer the word problems

- Joe makes 0.412 three-pointers he takes. Adam makes 0.42 three-pointers he shoots. If they both took 100 three pointers, who would make more?
- Willow and Stella measure the length of their pencils. Willow's pencil is 12.531cm long and Stella's pencil is 12.54cm long. Who's pencil is longer?
- It took Jayden 14.386 seconds to run 100m. Luke ran the 100m race in 14.39 seconds. Who ran it faster?



Ordering Decimals

Part 1Order the numbers below from least to greatest

1) 0.123, 0.39, 0.41, 0.113

_____, _____, _____, _____

2) 0.327, 0.32, 0.35, 0.326

_____, _____, _____, _____

3) 0.42, 0.4, 0.44

_____, _____, _____, _____

4) 1.554, 1.51, 1.5, 1.516

_____, _____, _____, _____

5) 13.46, 13.3, 13.26, 13.32

_____, _____, _____, _____

6) 23.2, 23.15, 23.238, 23.241

_____, _____, _____, _____

Part 2Order the numbers below from least to greatest

1) 0.25, 0.261, 0.253, 0.24

_____, _____, _____, _____

2) 0.35, 0.3, 0.34, 0.34

_____, _____, _____, _____

3) 2.41, 2.419, 2.323, 2.42

_____, _____, _____, _____

4) 4.122, 4.13, 4.14, 4.232

_____, _____, _____, _____

5) 12.51, 12.29, 12.3, 12.23

_____, _____, _____, _____

6) 19.8, 19.7, 19.645, 19.71

_____, _____, _____, _____

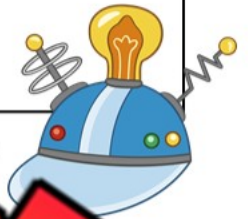
Ordering Fractions, Decimals, and Whole Numbers

Questions

Put the integers and decimals in order from least to greatest



1)	2.485, 2.406, $\frac{1}{5}$, 0.485, 1, 4, $\frac{1}{4}$
2)	0.217, 1, $\frac{2}{5}$, 0.325, 0, 0.475, $\frac{3}{6}$
3)	1.5, 1.5, $1\frac{1}{3}$, 2.25, 1, 2, $2\frac{3}{5}$
4)	3.5, $\frac{2}{5}$, 4.25, 2.5, 4.5, $\frac{13}{2}$
5)	1.666, 2.333, $\frac{1}{4}$, 1, $4\frac{1}{2}$, 1.25



Part 2

Answer the word problems

1) Jason is trying to decide which bag of coffee beans to buy. The bags are the same price but are listed in different measurements. Put the options in order from least to greatest.

Option	A	B	C	D	E	F
Size	1.5kg	$1\frac{1}{4}$ kg	2kg	1.99kg	$2\frac{3}{6}$ kg	2.4kg

2) A team of basketball player have their 3-point shooting stats listed in the table. Put the players in order from worst percentage to best.

Player	Chloe	Sofia	Lily	Mila	Ellie	Luna
Size	0.25	0.168	$\frac{2}{10}$	$\frac{4}{9}$	0.525	$\frac{15}{20}$

Fractions, Decimals, and Whole Numbers - Word Problems**Questions**

Answer the questions below

- 1) 4 friends worked a week at a farm collecting strawberries. They made \$1000 total. Some of the friends worked harder than others. A breakdown of how much each friend earned is below.

Sam	Colton	Hudson	Joel
\$	\$115.75	\$319.75	\$239/1000

Order the friends from who made the most money to who made the least.



- 2) The girl's basketball team kept stats for their games. Their shooting stats are listed below.

Alex	Hanna	Rebecca	Courtney	Brianna
0.325	30/90	0.367	2/3	15/20



Rank the girls in order from the best shooter to the worst shooter.

- 3) Brian is shopping for tomato soup. Which can of soup should he buy?

Option	A	B	C	D
Size	0.5L	$1\frac{2}{4}$ L	3L	$\frac{18}{4}$ L
Price	\$4	\$8	\$20	\$22



- Rank the options in order from smallest to largest?
- Explain which can of soup Brian should buy? Make sure to look at the prices.