



Preview – Information



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Google Slides Lessons Preview





Manitoba Math Curriculum Patterns & Relations – Grade 1

3-Part Lesson Format

Part 1 – Minds On!

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

LEARNING GOAL

We are learning to identify and describe patterns so we can understand how they repeat and change in everyday life.

Creating Repeating Patterns – Shape Size

Drag the labels under the shapes depending on their size. Small Medium Big

	Small	Medium	Big
1)			
2)			
3)			

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

EXIT CARD – QUICK DRAW

Draw one pattern you can find in real life — it could be on clothing, nature, buildings, or objects. Then, describe the **rule** for your pattern (for example: red-blue-red-blue).

Prompt examples:

- "I noticed a pattern on..."
- "The pattern repeats every..."



Manitoba Math Curriculum Patterns & Relations – Grade 1

Translating Patterns - AB Patterns

Translate the first pattern into a new pattern by dragging shapes of different colours.

1)	A	B	A	B	A	B	A	B
Translated								
2)	A	B	B	A	B	B	A	B
Translated								
3)	A	A	B	B	A	A	B	B
Translated								
4)	A	A	B	A	A	B	A	A
Translated								

Translate the first pattern into a new pattern by dragging the different elements.

1)	←	▱	▱	←	▱	▱	←	▱
Translated								
2)	◇	└	○	▽	└	◇	└	○
Translated								
3)	◁	▽	☆	◻	☆	◁	▽	☆
Translated								
4)	◁	😊	◻	◻	◁	😊	◻	◻
Translated								

Balance the equation below.

1)
_____ + _____ = 3 + 5

2)
_____ + _____ = 6 + 5



Manitoba Math Curriculum Patterns & Relations – Grade 1

Making Tens - Changing Variables

When we make tens, we are using a variable. The ten is the constant and the number we use to add to 10 is the variable.

Drag the numbers to show how many more dots you need to add to make 10?

1 2 3 4 5 6 7 8 9 0

1) $6 + \underline{\quad} = 10$	2) $5 + \underline{\quad} = 10$	3) $8 + \underline{\quad} = 10$	4) $7 + \underline{\quad} = 10$
5) $9 + \underline{\quad} = 10$	6) $2 + \underline{\quad} = 10$	7) $4 + \underline{\quad} = 10$	8) $1 + \underline{\quad} = 10$

Pre-Algebra - Balancing Scales

Balance the scales by taking away circles from the scale. The first one is done for you.

Drag the numbers to show how many balls you need to take away to balance the scales.

1 2 3 4 5 6 7 8 9 0

1) $6 - \underline{2} = 4$	2) $4 - \underline{\quad} = 3$	3) $8 - \underline{\quad} = 5$	4) $5 - \underline{\quad} = 3$
5) $7 - \underline{\quad} = 3$	6) $9 - \underline{\quad} = 5$	7) $9 - \underline{\quad} = 2$	8) $9 - \underline{\quad} = 6$

Equations

Drag the numbers to fill in the missing number to balance the equation.

1 2 3 4 5
6 7 8 9 0

1) - =	2) - =	3) - =	4) - =
5) - =	6) - =	7) - =	8) - =



Workbook Preview



Grade 1

Patterns and Relations

	Curriculum Expectations	Pages That Cover the Expectations
PR.1	Demonstrate an understanding of repeating patterns (two to four elements) by: • describing • reproducing • extending • creating patterns using manipulatives, diagrams, sounds	3 - 24
PR.2	Translate repeating patterns from one representation to another.	25 - 30

Preview of 50 pages from this product that contains 131 pages total.

Name: _____

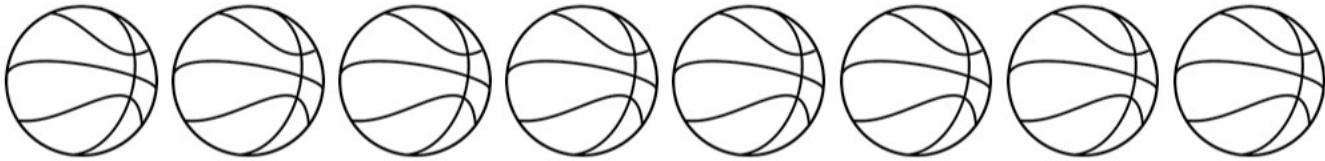
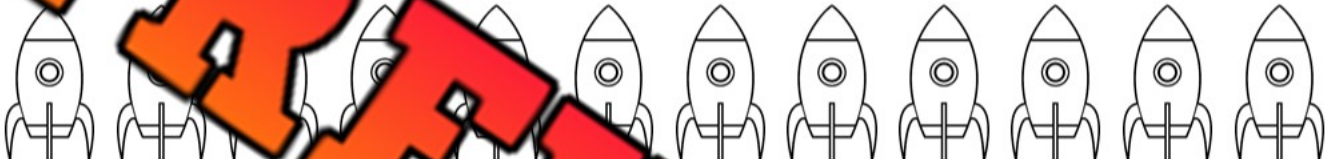
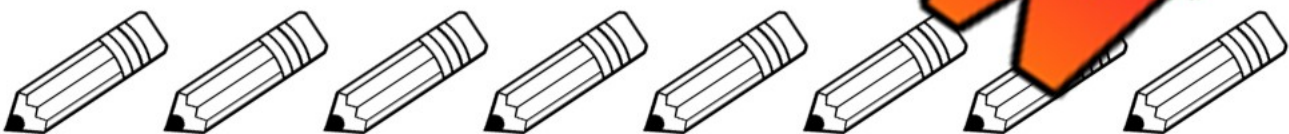
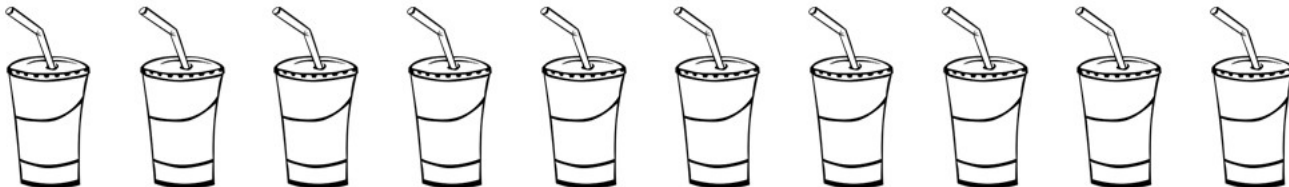
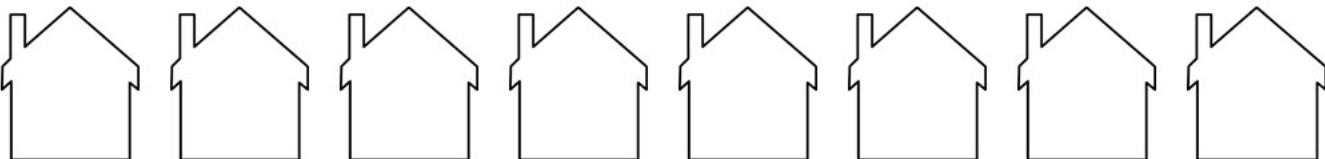
4

Curriculum Connection
PR.1

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: _____

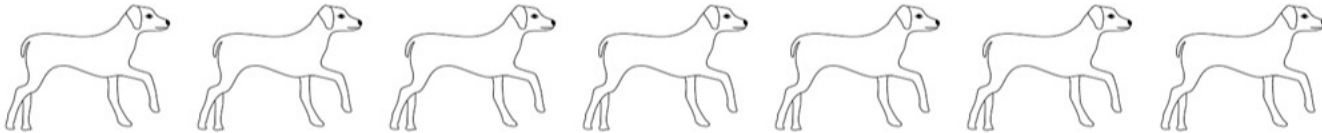
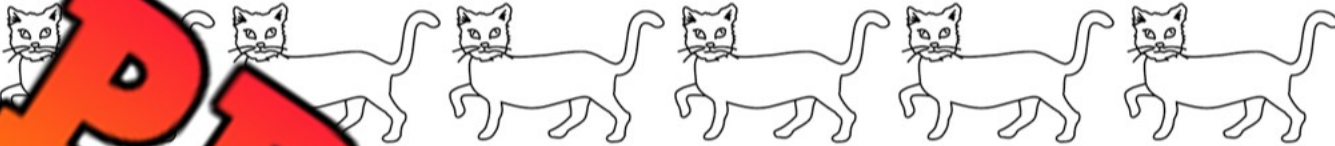
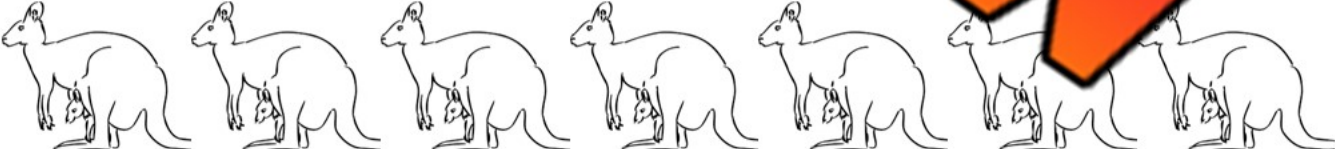
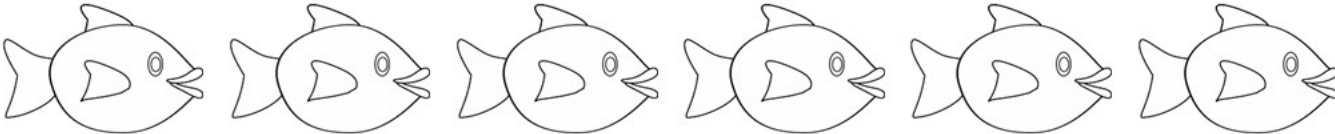
5

Curriculum Connection
PR.1

Creating Repeating Patterns - Animal Colour

Questions

Colour the animals below in different colours by creating a pattern

1)	
2)	
3)	
4)	
5)	
6)	
7)	
8)	

Name: _____

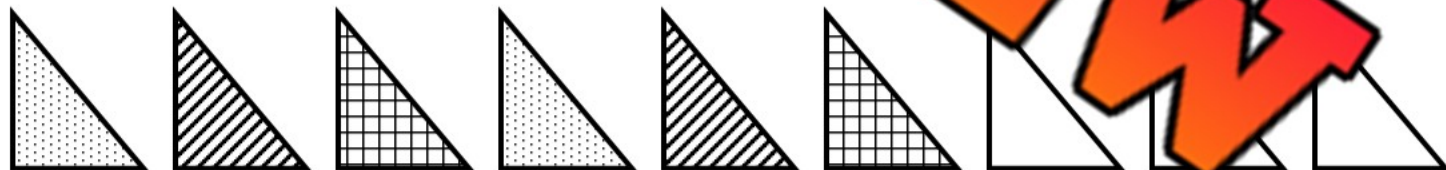
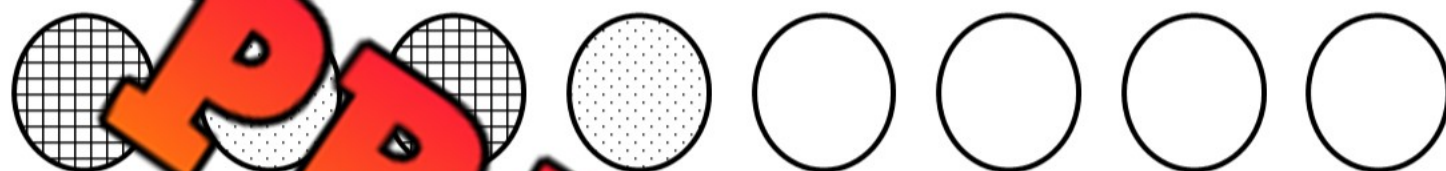
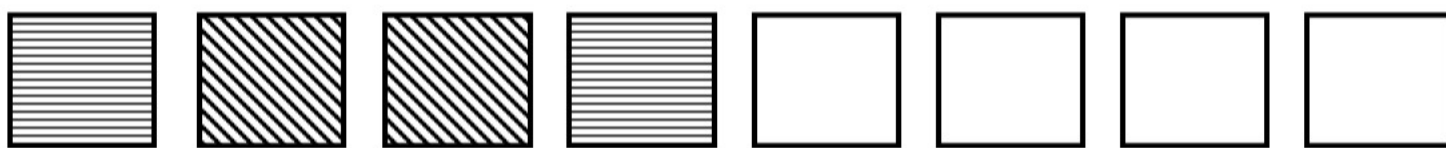
8

Curriculum Connection
PR.1

Extending Repeating Patterns - Texture

Questions

Extend the pattern by looking for a pattern in the textures



Name: _____

10

Curriculum Connection
PR.1

Repeating Patterns - 2 Elements

Part 1

Continue the repeating patterns below by drawing more objects



Part 2

Repeating A, B pattern - Label patterns below A and B



Name: _____

11

Curriculum Connection
PR.1

Repeating Patterns - 3 Elements

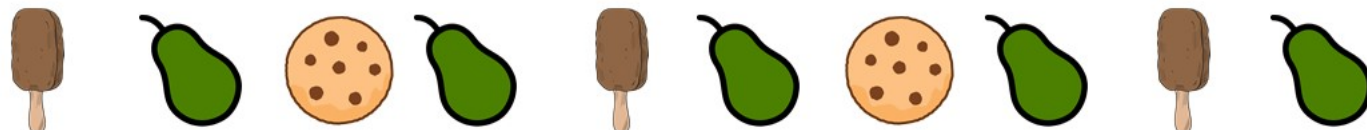
Part 1

Continue the repeating patterns below by drawing more objects



Part 2

Repeating A, B, C pattern Label patterns below A, B and C



Name: _____

12

Curriculum Connection
PR.1

Repeating Patterns - 4 Elements

Part 1

Continue the repeating patterns below by drawing more objects



Part 2

Label the patterns below A, B, C, and D



Name: _____

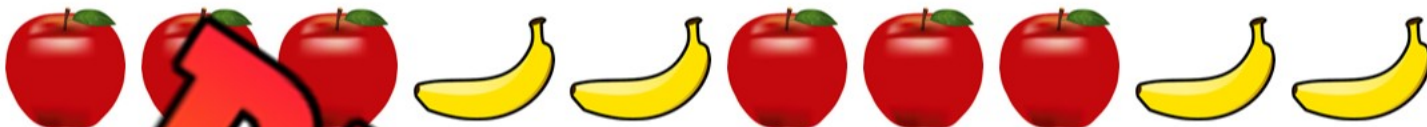
13

Curriculum Connection
PR.1

Repeating Pattern Cores - 2 Elements

Part 1

Core = Part that repeats - Circle the pattern core



Part 2

Create A/B pattern using the 2 different elements

Name: _____

15

Curriculum Connection
PR.1

Repeating Pattern Core - 4 Elements

Part 1

Circle the pattern core in the patterns below



Part 2

Create A, B, C, D patterns below using different elements

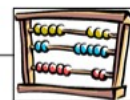
Four sets of blank lines for creating patterns, each consisting of a solid top line, a dashed middle line, and a solid bottom line.

Name: _____

16

Curriculum Connection
PR.1

Repeating Patterns - Pattern Core



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

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

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

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

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

A B C B A B C _____, _____

Part 2 Anna circled the core in each of the patterns below. Was Anna right?

1 2 3 1 2 3 1 2 3

5 1 1 5 5 1 1 5

1 2 3 4 5 1 2 3 4 5

A B B A A B B A B

F G P P F G P P F G P P

YES

YES

NO

YES

NO

YES

NO

Repeating A/B Patterns

Questions

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

1)      

A B A B A B

2)      

3)      

4)      

5)         

6)          

7)          

Name: _____

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Curriculum Connection
PR.1

Repeating A/B Patterns

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



Part 2 Create patterns with the objects above using A/B patterns

1)

A B B C A B B C A

2)

A A B C D A A B C D

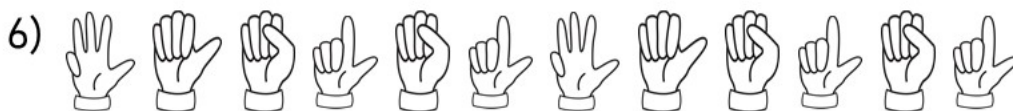
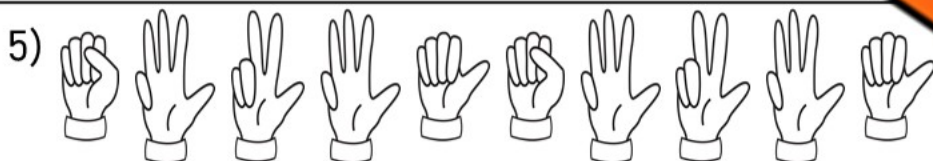
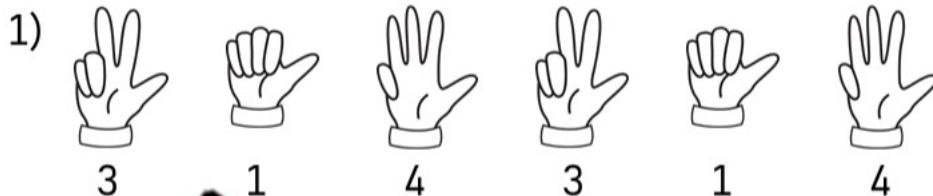
3)

A B C A A B C A A

Repeating Patterns - Fingers

Questions

Continue the repeating patterns below with three more hands



Patterns Using Numbers

Questions

Continue the patterns below by filling in the blanks

1) 3 5 3 5 _____

2) 2 2 _____

3) 4 8 4 _____

4) 2 4 8 2 4 8 _____

5) 1 5 10 1 5 10 _____

6) 3 8 11 3 8 11 _____

7) 5 5 10 5 5 10 _____

Name: _____

24

Curriculum Connection
PR.1

Extending Repeating Patterns - Numbers

Questions

Continue the patterns below by filling in the blanks

1) 8 2 8 2 8 ____

2) 1 2 3 1 2 ____

3) 5 9 7 5 7 9 ____

4) 2 1 1 3 2 1 1 3 2 ____

5) 6 4 2 2 2 6 4 2 2 2 ____

6) 7 8 9 7 8 9 7 8 9 7 ____

7) 6 2 0 7 0 6 2 0 7 0 ____

Extending Repeating Patterns - Letters

Questions

Continue the patterns below by filling in the blanks

1)	A	B	B	A	B	B							
2)	R	S	R	T	S								
3)	O	N	N	I	R	N							
4)	Q	Y	E	X	Q	E							
5)	L	M	Z	G	Z	L	M	Z					
6)	S	J	U	Y	S	J	U	Y					
7)	W	C	A	C	W	C	A	C					
8)	R	P	V	R	V	R	P	V	R	V			

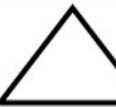
Translating Patterns - AB Patterns

Translating Patterns

The pattern red, blue, red, blue can be translated to clap, stomp, clap, stomp. These are both A/B patterns.

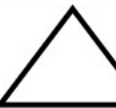
Questions

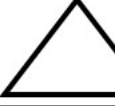
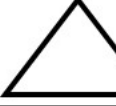
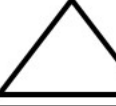
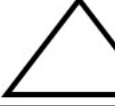
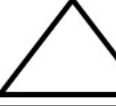
Translate the first pattern into a new pattern using different colours

1)	A	B	A	B	A	B
Translated						

2)	A	B	A	B	B
Translated					

3)	A	B	C			C
Translated						

4)	A	A	B	A	A	B
Translated						

5)	A	B	A	A	B	A
Translated						

Translating Patterns - AB Patterns

Questions

Translate the first pattern into a new pattern using different colours

1)	2	5	2	5	2	5
Translated						

2)	T	G	T	T	G
Translated					

3)	3	3	5	5	
Translated					

4)	F	B	B	B
Translated				

5)	7	8	7	7	8	7
Translated						

6)	B	B	L	L	B	B	L	L
Translated								

Name: _____

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Patterning Quiz

Part 1

Continue the repeating patterns below by drawing 3 more pictures



Part 2

Write the pattern core and continue the pattern

1 1 2 3 1 3

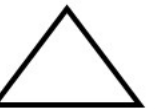
3 6 2 2 2 3 6 2

7 7 4 4 5 7 7 4 4 5

Part 3

Translate the first pattern into a new pattern using different colours

1)	A	B	A	B	A	B
Translated						

2)	A	B	B	A	B	B
Translated						

Part 4

Continue the patterns below by filling in the blanks

1)	R	T	S	S	R	T	S	S					
2)	P	Y	Y	P	P	Y	Y	P					
3)	W		B	W	L	W	B						

Part 5

Create your own A/B pattern by filling in different textures inside the shapes

Part 6

Draw your own A/B patterns using shapes, numbers, or letters

	A	B	A	B	A	B
Translated						

Grade 1

Variables and Equations

	Curriculum Expectations	Pages That Cover the Expectations
PR.3	Describe equality as a balance and inequality as an imbalance, concretely and pictorially (0 to 20)	34 – 50, 58 – 59
PR.4	Record equalities, using the equal symbol (0 to 20)	51 – 57, 60 – 69

Birthday Cake - Equalities

Questions

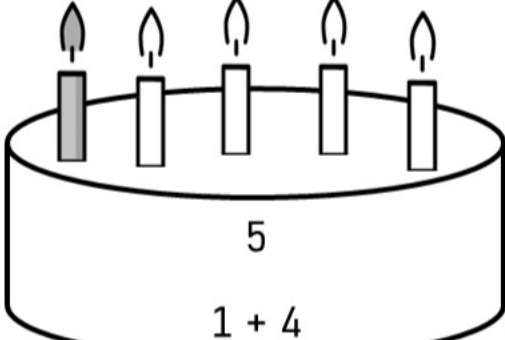
Create equalities by filling in the blanks

1)



1 Candles = 5
white

=



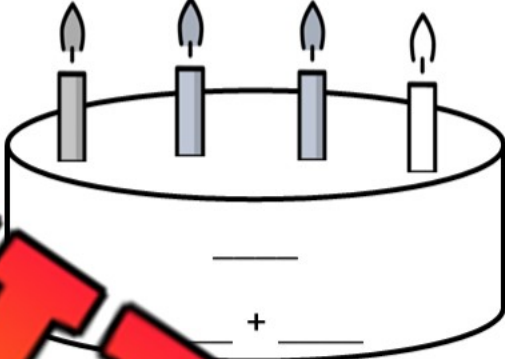
5
1 + 4

2)



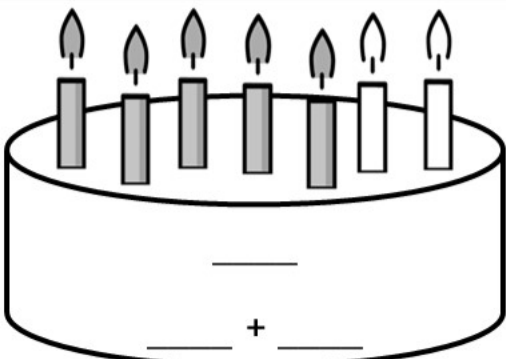
____ + ____

=



____ + ____

3)



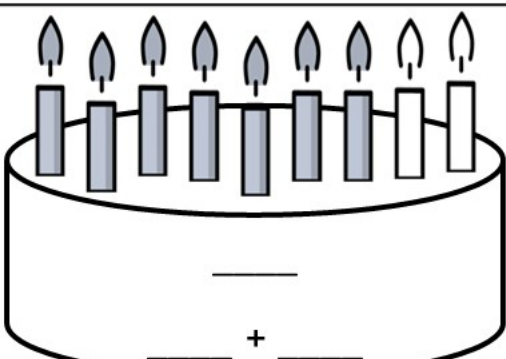
____ + ____

=



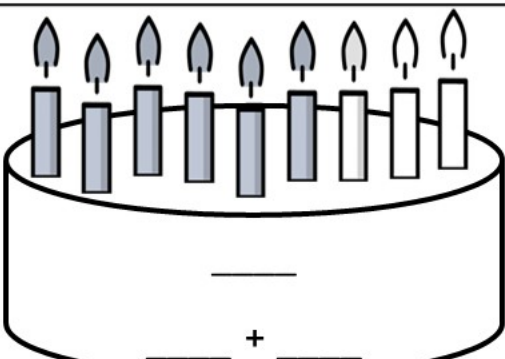
____ + ____

4)



____ + ____

=



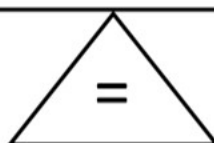
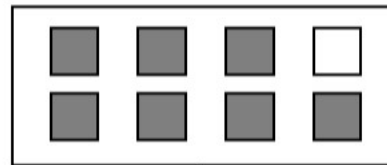
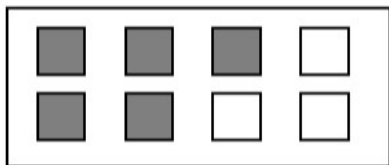
____ + ____

Pan Balance - Equalities

Questions

Fill in the blanks to create equalities

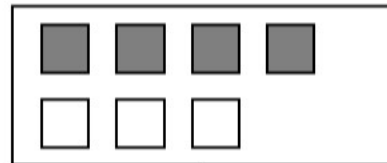
1)



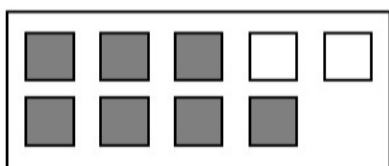
8

 $7 + 1$

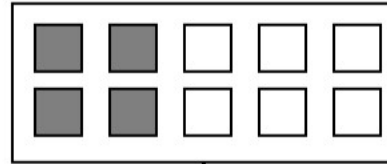
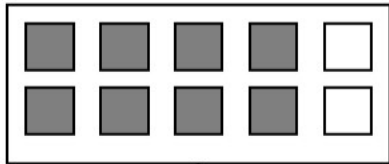
2)

 $\underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $\underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

3)

 $\underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $\underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

4)

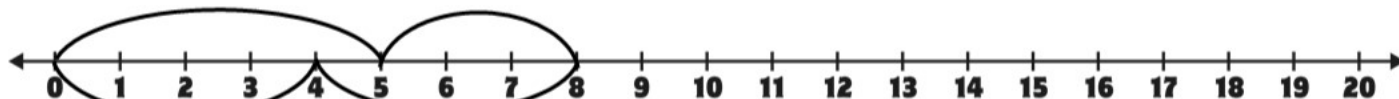
 $\underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $\underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

Double Number Lines - Equalities

Questions

Fill in the blanks to complete the equalities

1) $5 + 3 = 8$



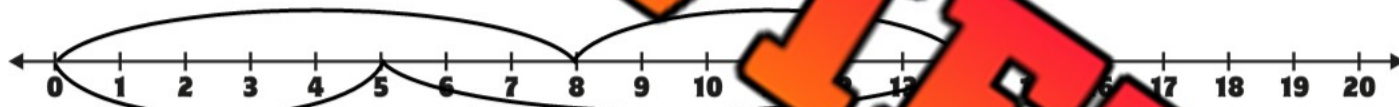
$4 = 8$

2) _____ = _____



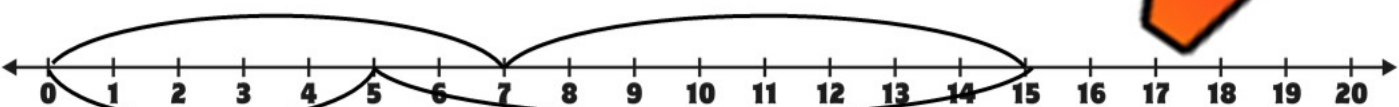
_____ + _____ = _____

3) _____ + _____ = _____



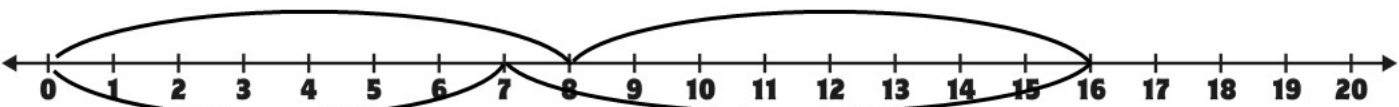
_____ + _____ = _____

4) _____ + _____ = _____



_____ + _____ = _____

5) _____ + _____ = _____



_____ + _____ = _____

Name: _____

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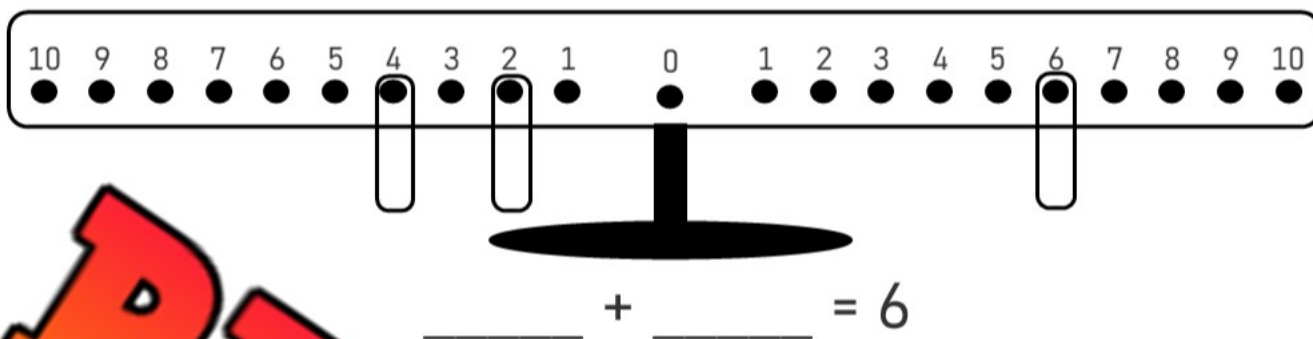
Curriculum Connection
PR.3

Pan Balance - Equalities

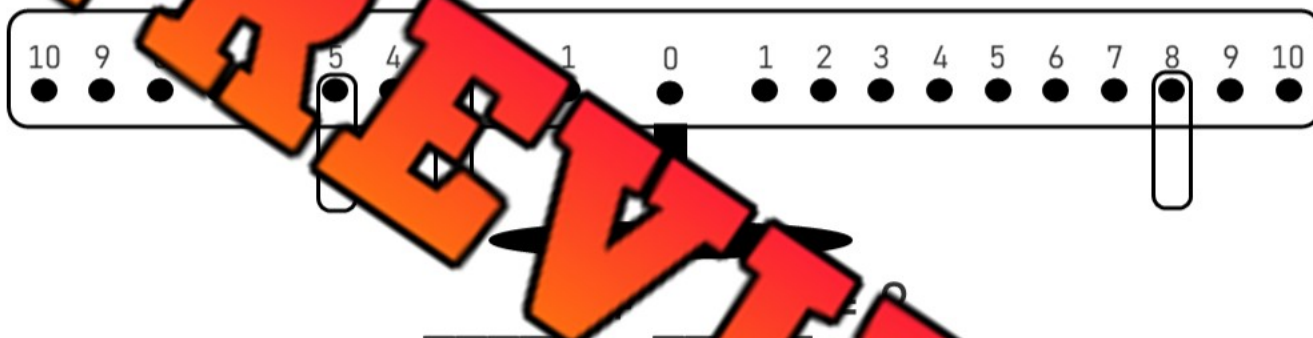
Questions

Fill in the blanks to balance the equations

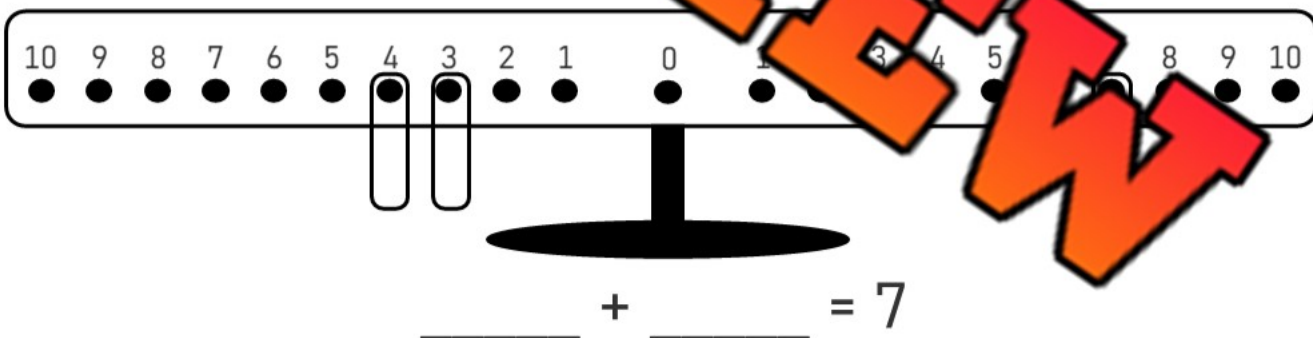
1)



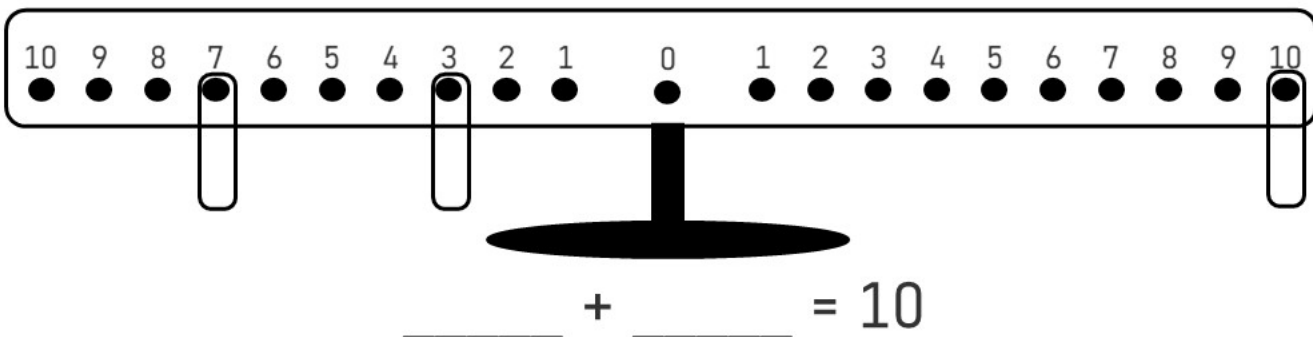
2)



3)



4)



Name: _____

40

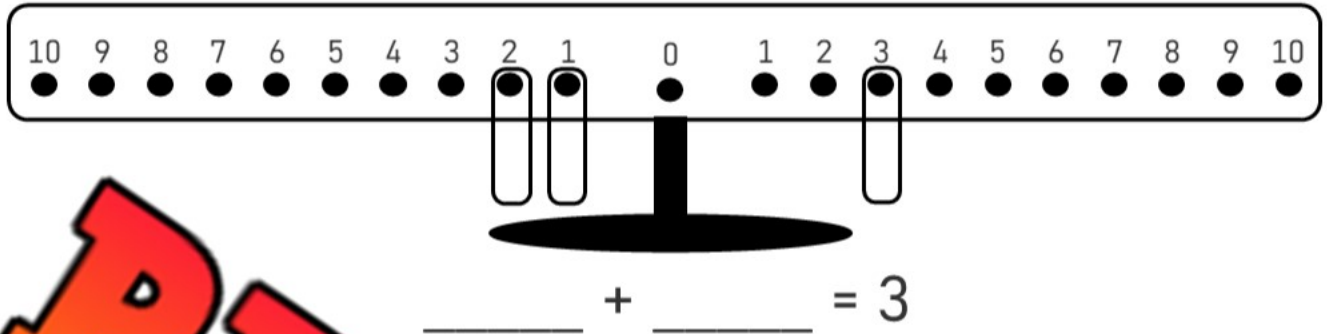
Curriculum Connection
PR.3

Pan Balance - Equalities

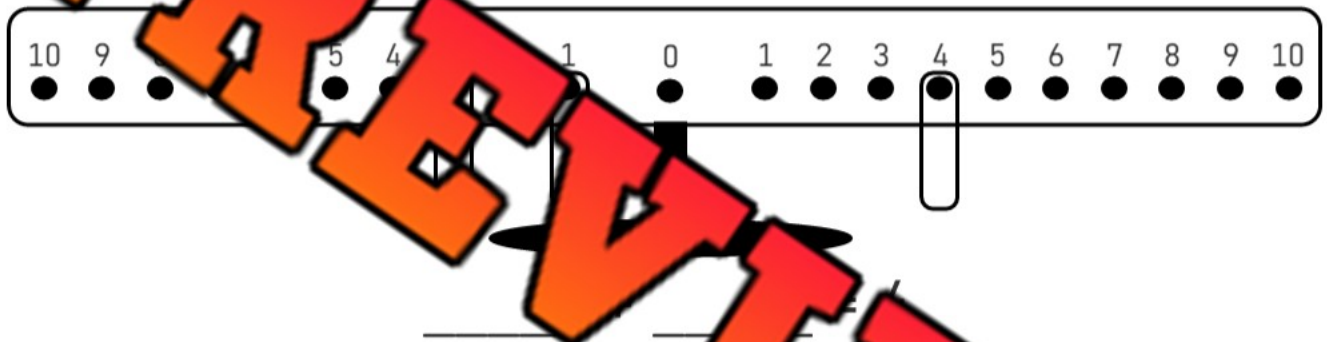
Questions

Fill in the blanks to balance the equations

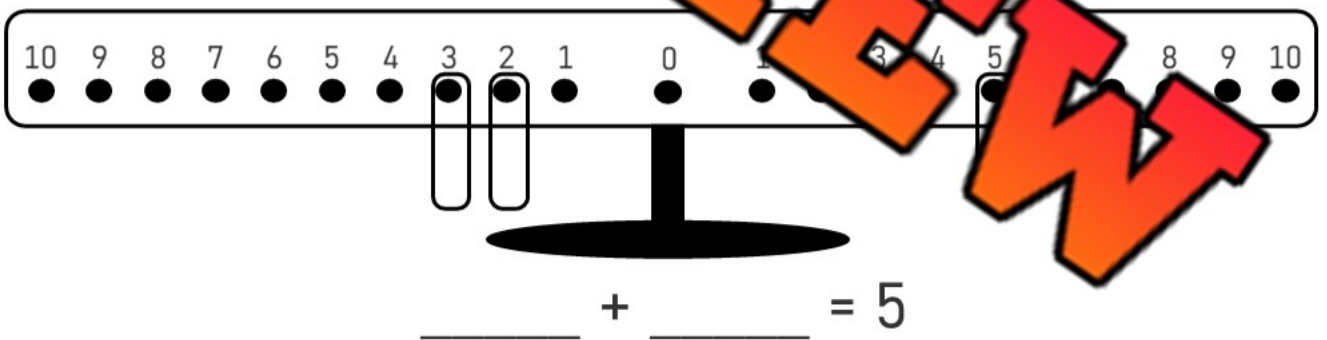
1)



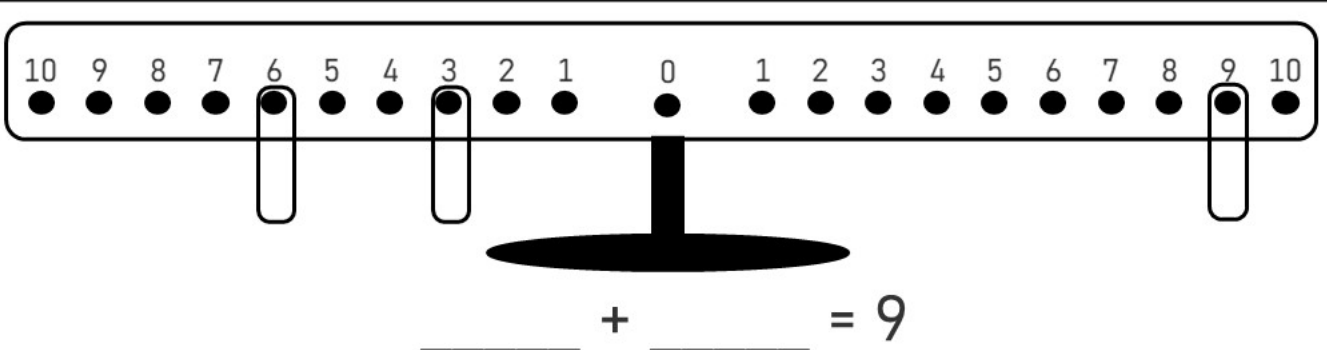
2)



3)



4)



Name: _____

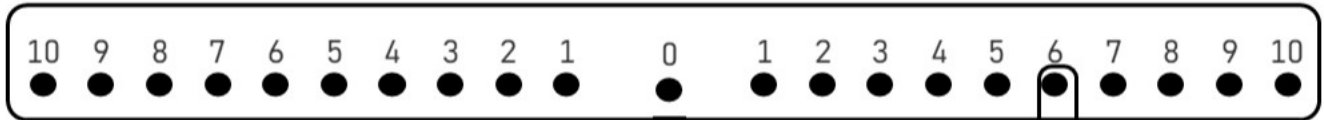
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Curriculum Connection
PR.3

Balance Pan Equations

Questions How many ways can you balance the equation to equal 6

1)



$$\underline{\quad} + \underline{\quad} = 6$$

2)



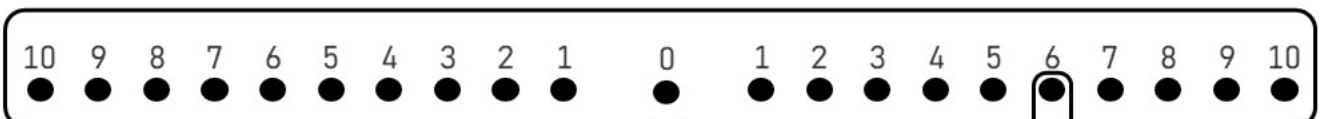
$$\underline{\quad} + \underline{\quad} = 6$$

3)



$$\underline{\quad} + \underline{\quad} = 6$$

4)



$$\underline{\quad} + \underline{\quad} = 6$$

Name: _____

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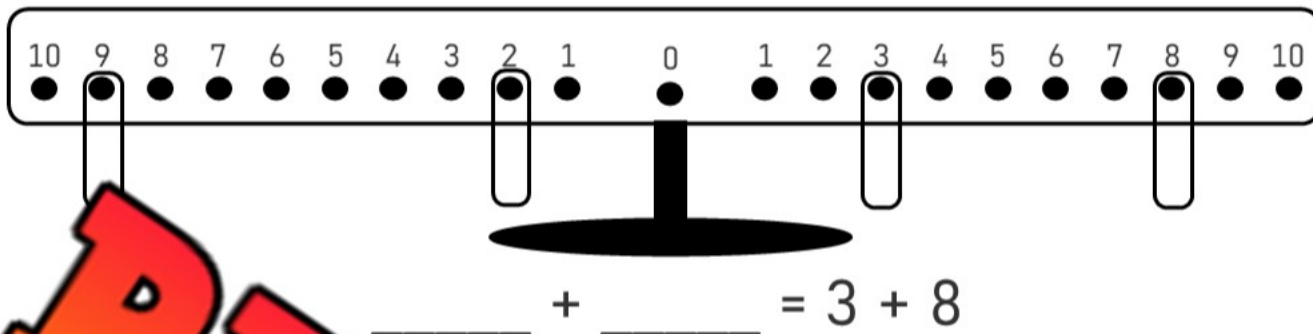
Curriculum Connection
PR.3

Balance Pan Equations

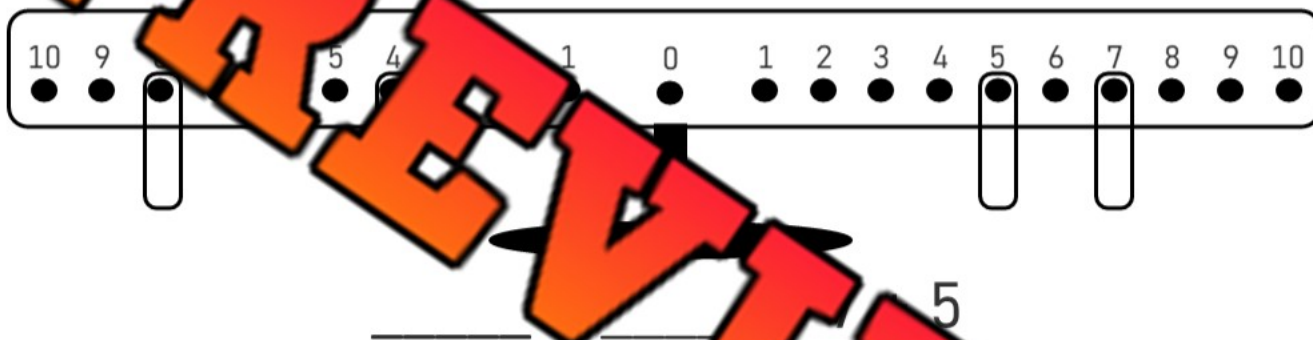
Questions

Balance the equations below

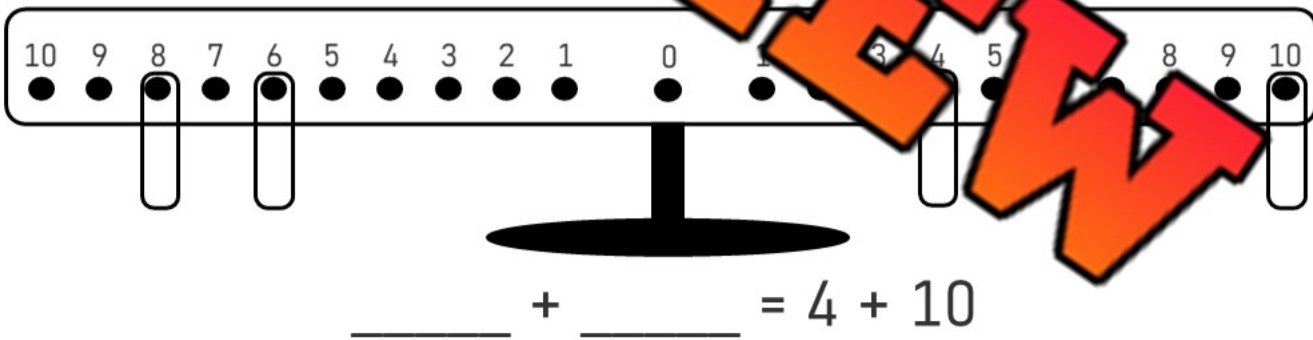
1)



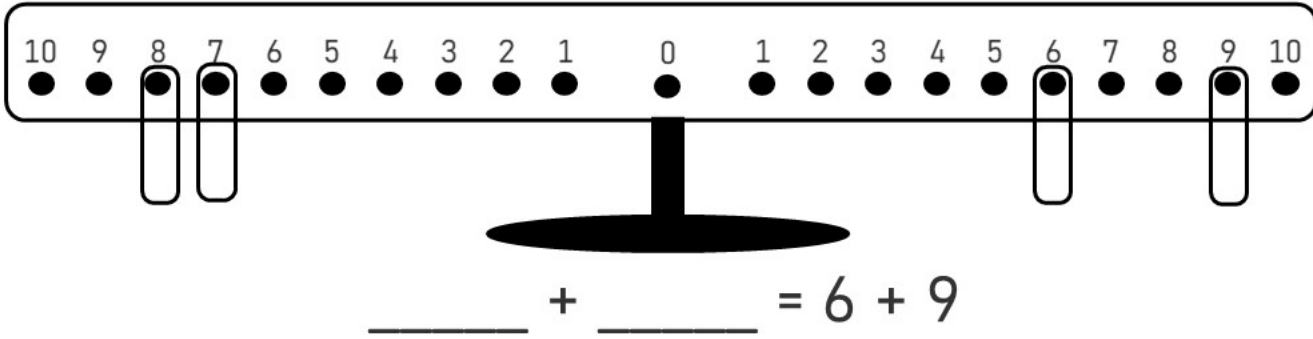
2)



3)



4)



Name: _____

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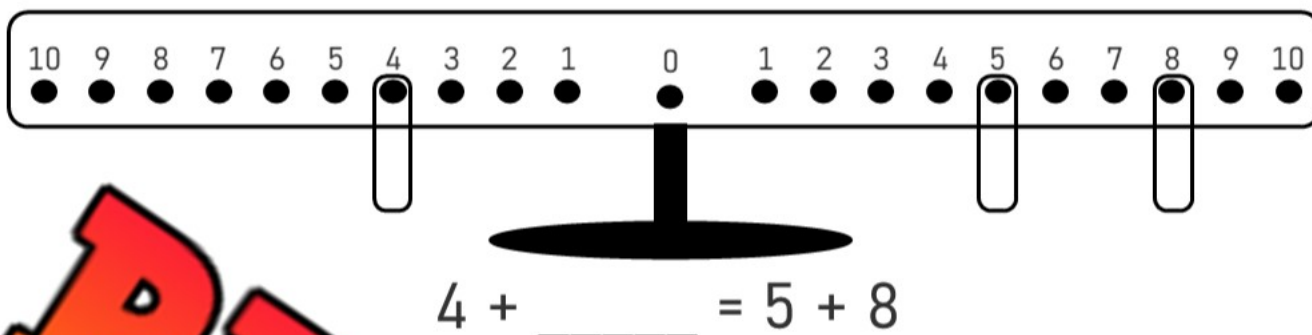
Curriculum Connection
PR.3

Balance Pan Equations

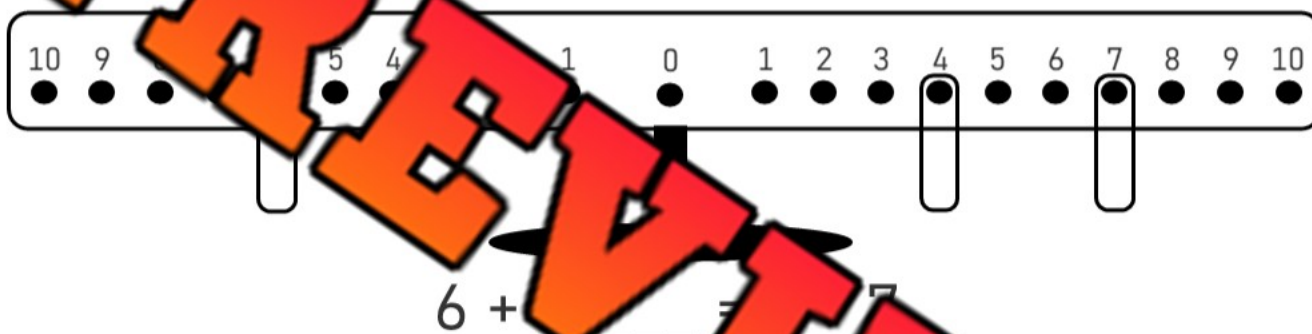
Questions

Balance the equations below

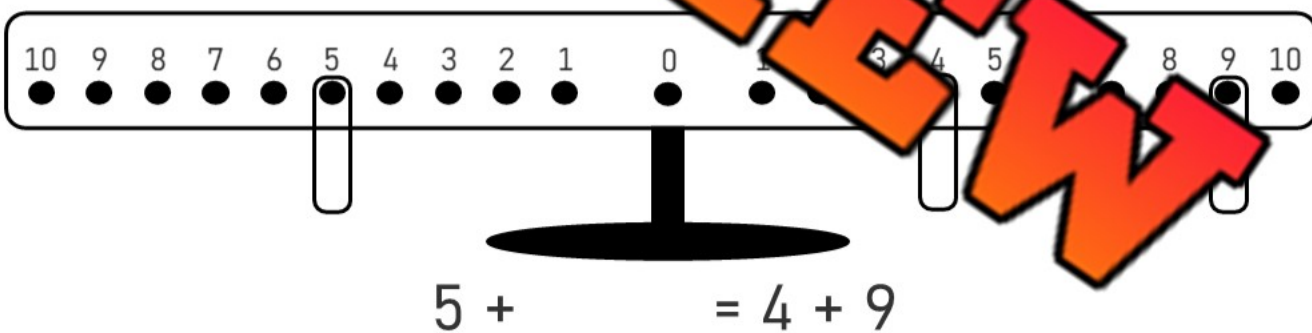
1)



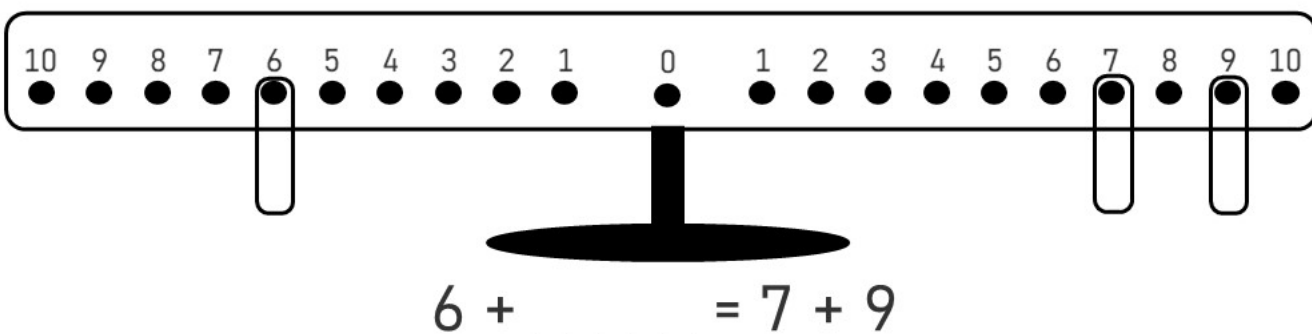
2)



3)



4)



Name: _____

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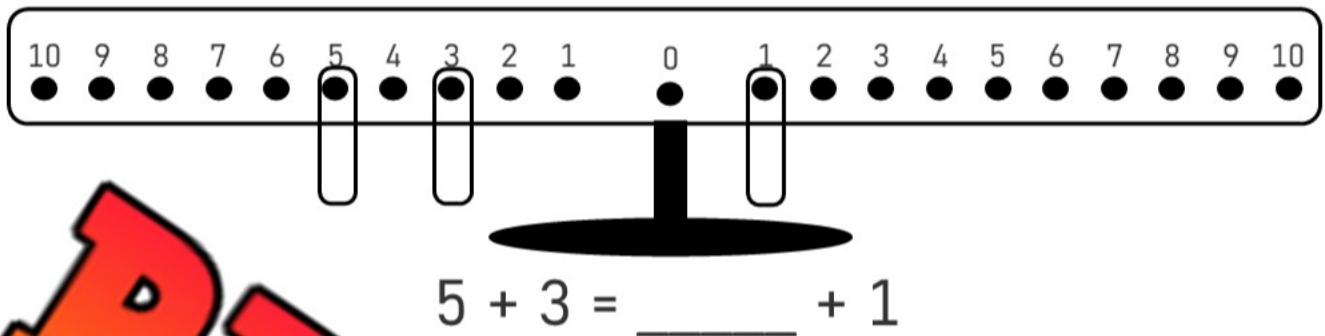
Curriculum Connection
PR.3

Balance Pan Equations

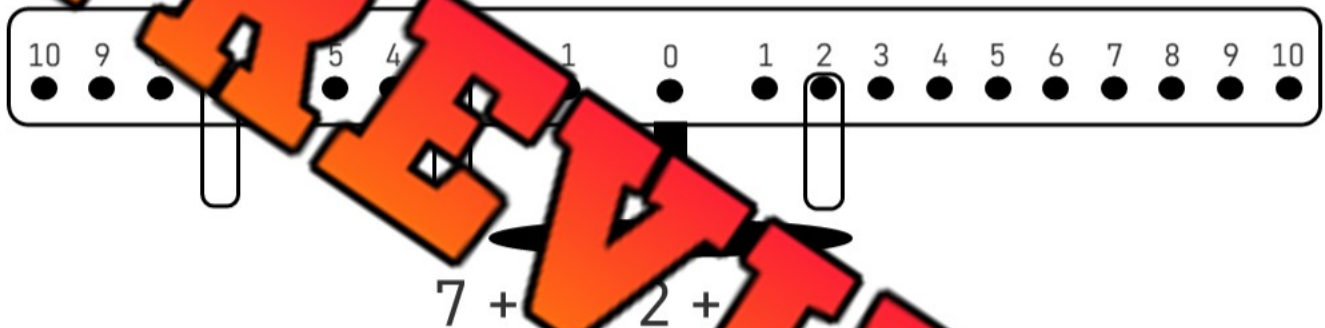
Questions

Balance the equations below

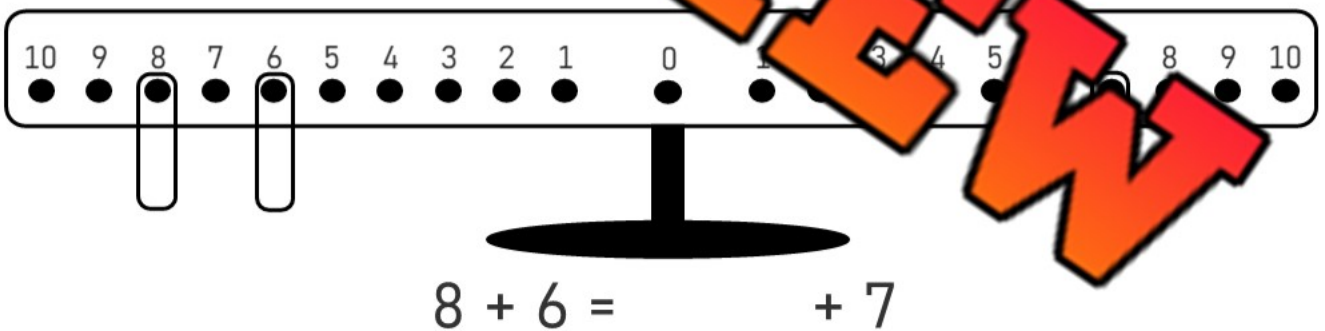
1)



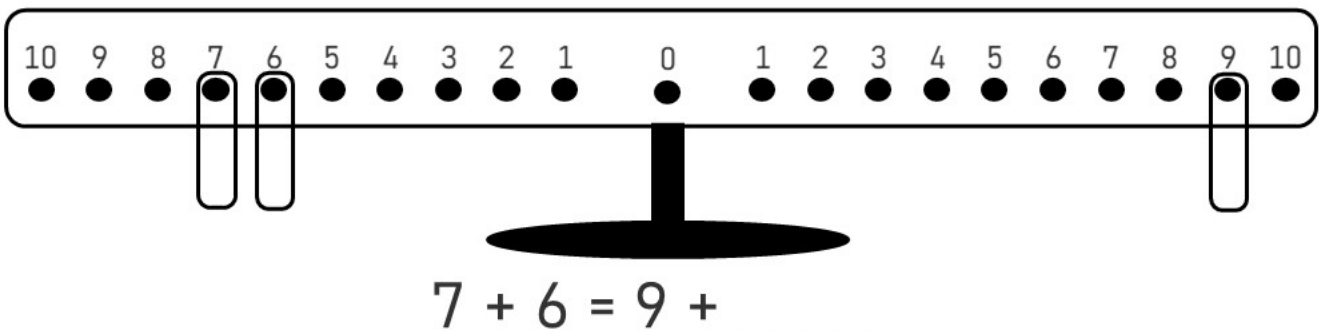
2)



3)



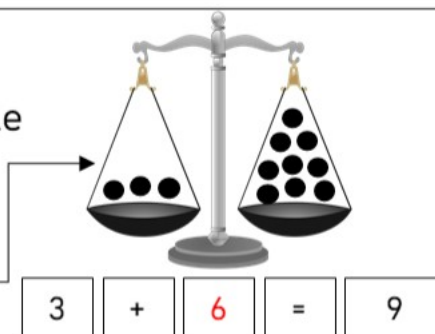
4)



Pre-Algebra - Balancing Addition Equations

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

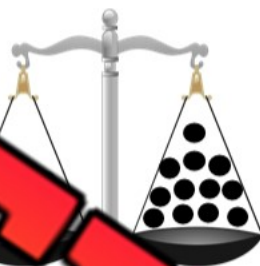
Answer: Add 6 circles to the scale to make them equal.



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



$$7 + \square = 11$$



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



$$9 + \square = 13$$



$$6 + \square = 10$$



$$8 + \square = 14$$



$$3 + \square = 12$$



$$7 + \square = 11$$



$$6 + \square = 14$$



$$1 + \square = 11$$

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) $5 + \square = \square$

○○
○○
○

2) $3 + 5 = \square$

○ ○○○
○○ ○○

3) $3 + 6 = \square$

○ ○○○
○○ ○○○

4) $1 + \square = \square$

○ ○○○
○○ ○

5) $\square + 3 = 8$

○○○○
○○○○
○○

6) $4 + \square = 10$

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○○ ○○○
○○

7) $\square + 5 = 8$

○○○○
○○○○
○○

8) $\square + 10 = 20$

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○○○○○○
○○○○○○

10) $\square + 4 = 9$

○○ ○○○
○○ ○○○
○○

11) $4 + \square = 8$

○○ ○○○
○○ ○○○
○○

12) $6 + 6 = \square$

○○ ○○○
○○ ○○○
○○ ○○○

13) $\square + 6 = 16$

○○ ○○○
○○ ○○○
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14) $7 + \square = 9$

○ ○○○
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○○

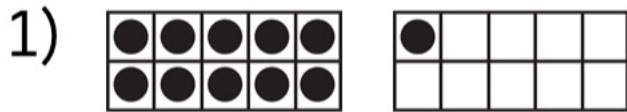
15) $4 + 12 = \square$

○○ ○○○
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○○○○○○

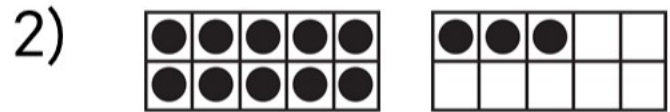
Making 20 - Fill in the Blanks

Questions

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



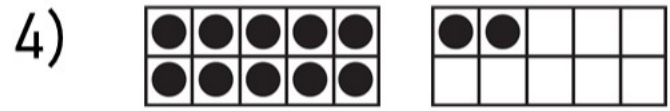
$$10 + \underline{\quad} = 20$$



$$13 + \underline{\quad} = 20$$



$$15 + \underline{\quad} = 20$$



$$12 + \underline{\quad} = 20$$



$$14 + \underline{\quad} = 20$$



$$11 + \underline{\quad} = 20$$



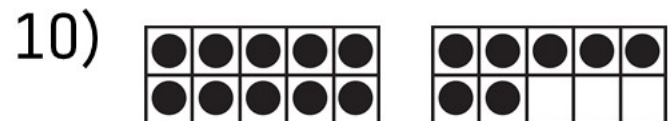
$$18 + \underline{\quad} = 20$$



$$16 + \underline{\quad} = 20$$



$$10 + \underline{\quad} = 20$$



$$17 + \underline{\quad} = 20$$

Are They Equal? Addition to 20

QuestionsCircle true if the equation is equal and false if it is not

1)	$8 + 3 = 12$	True	False
2)	$8 + 5 = 14$	True	False
3)	$8 + 6 = 14$	True	False
4)	$8 + 7 = 15$	True	False
5)	$10 + 4 = 14$	True	False
6)	$14 + 5 = 18$	True	False
7)	$17 + 2 = 19$	True	False
8)	$13 + 5 = 18$	True	False
9)	$16 + 3 = 20$	True	False
10)	$18 + 2 = 20$	True	False

Name: _____

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Curriculum Connection
PR.4

Addition to 20 - Are They Equal?

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

$5 + 3 = 8$

$8 + 4 \neq 13$

$14 + 6 = 20$



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

2) $3 + 2 = 5$

3) $3 + 3 = 5$

4) $3 + 5 = 9$

5) $4 + 5 = 9$

6) $6 + 5 = 11$

7) $6 + 2 = 7$

8) $6 + 4 = 10$

9) $6 + 4 = 12$

10) $8 + 3 = 11$

11) $9 + 4 = 12$

12) $8 + 5 = 13$

13) $10 + 5 = 14$

14) $12 + 3 = 15$

15) $15 + 4 = 20$

PREVIEW

Are They Equal - True or False

QuestionsCircle true if the expressions are equal and false if they are not

1)	$2 + 4 = 1 + 5$	True	False
2)	$5 + 4 = 3 + 6$	True	False
3)	$2 + 3$	True	False
4)	$4 + 4 = 4 + 4$	True	False
5)	$6 + 4 = 7 + 2$	True	False
6)	$8 + 3 = 9 + 1$	True	False
7)	$8 + 5 = 5 + 8$	True	False
8)	$4 + 9 = 10 + 5$	True	False
9)	$16 + 3 = 19 + 0$	True	False
10)	$18 + 2 = 15 + 5$	True	False

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) $2 + 3 = 1 + 5$

7) $5 + 4 = 3 + 6$

2) $5 + 1 = 9$

8) $4 + 4 = 7 + 1$

3) $6 + 4 = 7 + 2$

9) $2 + 3 = 9 + 1$

4) $8 + 5 = 5 + 8$

10) $4 + 2 = 5$

5) $12 + 4 = 11 + 5$

11) $14 + 5 = 13 + 4$

6) $16 + 3 = 19 + 0$

12) $18 + 2 = 15 + 5$

Name: _____

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Curriculum Connection
PR.4**Addition - Which Expression Matches?**

Two of the expressions equal the same number. Which one matches the shaded in expression

Example

$4 + 7$

$9 + 2$

$5 + 5$

**Questions**

Circle the expression that matches the shaded in expression

1)

$2 + 5$

$2 + 6$

2)

$5 + 4$

5

$2 + 7$

3)

$7 + 3$

5

$6 + 3$

4)

$6 + 5$

$4 + 7$

$6 + 2$

5)

$9 + 3$

$7 + 4$

$6 + 6$

6)

$8 + 6$

$10 + 4$

$7 + 8$

7)

$10 + 7$

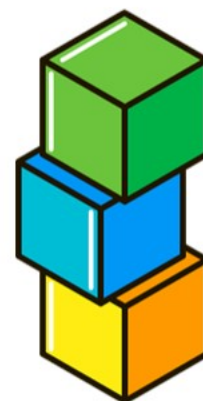
$12 + 4$

$9 + 8$

Addition Word Problems - Finding Unknown Number**Questions**

Answer the questions below

1) Barry had 4 blocks. His teacher gave him more blocks. Now he has 9 blocks. How many blocks was he given?



2) Tim drank 4 glasses of water in the morning. He's had 9 glasses of water in total today. How many glasses did he drink the rest of the day?



3) Ted brought 5 crackers to school. His friend gave him some more crackers. He now has 12 crackers. How many crackers did his friend give him?



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?



$$\boxed{10} - \boxed{} = \boxed{7}$$



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



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



$$\boxed{7} - \boxed{} = \boxed{1}$$



$$\boxed{11} - \boxed{} = \boxed{6}$$



$$\boxed{12} - \boxed{} = \boxed{9}$$



$$\boxed{11} - \boxed{} = \boxed{5}$$



$$\boxed{14} - \boxed{} = \boxed{9}$$



$$\boxed{6} - \boxed{} = \boxed{0}$$

Pre-Algebra - Balancing Addition Equations

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

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

Examples:

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

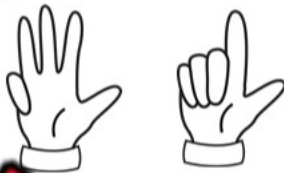
Questions

Fill in the missing number to balance the equation

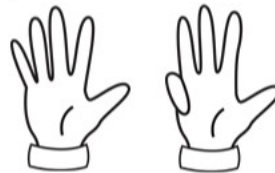
1) $5 - \boxed{2} = \boxed{}$



2) $4 - 2 = \boxed{}$



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



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



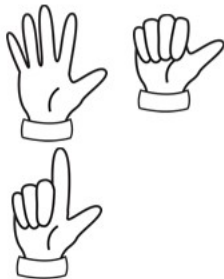
5) $8 - \boxed{} = 2$



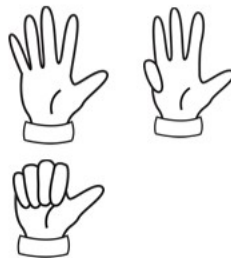
6) $10 - \boxed{} = 7$



7) $\boxed{} - 7 = 1$



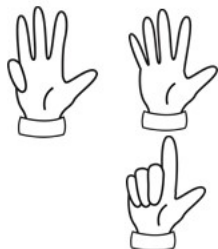
8) $\boxed{} - 6 = 4$



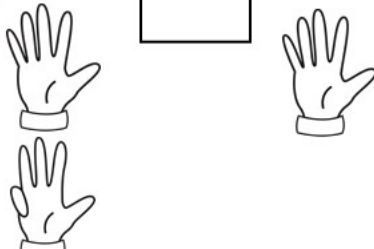
9) $\boxed{} - 10 = \boxed{}$



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



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



12) $7 - 1 = \boxed{}$



Name: _____

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Curriculum Connection
PR.4

Are They Equal? Subtraction to 20

Questions

Circle true if the equation is equal and false if it is not

1)	$13 - 2 = 11$	True	False
2)	$15 - 4 = 12$	True	False
3)	$13 - 2 = 11$	True	False
4)	$19 - 7 = 12$	True	False
5)	$20 - 6 = 15$	True	False
6)	$13 - 2 = 10$	True	False
7)	$16 - 5 = 11$	True	False
8)	$18 - 7 = 12$	True	False
9)	$19 - 8 = 11$	True	False
10)	$20 - 8 = 11$	True	False

Subtraction Expressions - Equal?

Questions

Circle true if the equation is equal and false if it is not

1)	$2 - 1 = 3 - 2$	True	False
2)	$4 - 2 = 3 - 2$	True	False
3)	$6 - 3 = 7 - 3$	True	False
4)	$7 - 2 = 8 - 6$	True	False
5)	$8 - 3 = 9 - 2$	True	False
6)	$10 - 2 = 11 - 3$	True	False
7)	$12 - 5 = 10 - 2$	True	False
8)	$16 - 4 = 14 - 3$	True	False
9)	$18 - 6 = 15 - 3$	True	False
10)	$20 - 5 = 19 - 5$	True	False

Subtraction Expressions - Equal?

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

Examples: $8 - 5 = 9 - 6$ $10 - 5 \neq 7 - 1$



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

1) $7 - 3 = 3 - 1$

7) $6 - 3 = 5 - 1$

2) $8 - 5 = 4 - 1$

8) $8 - 1 = 10 - 3$

3) $10 - 4 = 8 - 2$

9) $5 - 3 = 10 - 2$

4) $13 - 4 = 11 - 2$

10) $15 - 4 = 10 - 0$

5) $12 - 3 = 14 - 5$

11) $17 - 4 = 15 - 1$

6) $19 - 4 = 16 - 1$

12) $20 - 3 = 19 - 2$

Name: _____

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Curriculum Connection
PR.4

Subtraction - Which Expression Matches?

Two of the expressions equal the same number. Which one matches the shaded in expression?

Example

$9 - 4$

$8 - 3$

$10 - 6$



Questions

Circle the expression that matches the shaded in expression

1)

$9 - 4$

$7 - 3$

$8 - 5$

2)

$7 - 4$

$8 - 2$

$10 - 3$

3)

$9 - 2$

$8 - 2$

$10 - 3$

4)

$12 - 3$

$11 - 1$

$12 - 4$

5)

$15 - 5$

$13 - 3$

$14 - 3$

6)

$18 - 6$

$13 - 2$

$14 - 2$

7)

$20 - 7$

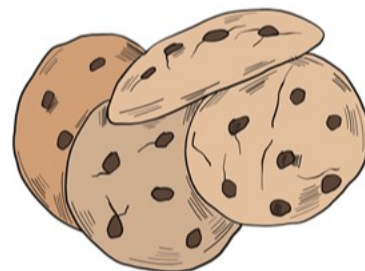
$16 - 3$

$17 - 5$

Subtraction Word Problems - Finding Unknown Number**Questions**

Answer the questions below

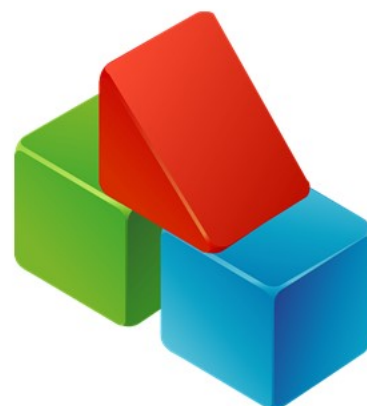
1) Julia had 8 cookies. She ate some cookies after dinner. Now she has 3 cookies. How many cookies did she eat?



2) Rachel had \$15 when she bought a toy. Now she has \$11. How much did she spend on a toy?



3) Teagan had 20 blocks. She gave some to a friend. Now she has 13 blocks. How many blocks did she give away?



Are They Equal? True or False (Up To 20)**Questions**

Circle true if the equation is equal and false if it is not

1)	$4 + 2 = 8 - 3$	True	False
2)	$4 + 3 = 9 - 2$	True	False
3)	$5 + 2 = 3$	True	False
4)	$11 - 2 = 3$	True	False
5)	$14 - 3 = 7 + 4$	True	False
6)	$6 + 7 = 15 - 3$	True	False
7)	$14 - 4 = 6 + 4$	True	False
8)	$9 + 7 = 20 - 3$	True	False
9)	$9 + 8 = 19 - 2$	True	False
10)	$20 - 1 = 10 + 9$	True	False

Are The Expressions Equal? Mixed Operations

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

Examples: $8 + 5 = 15 - 2$ $10 - 5 \neq 4 + 2$



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

1) $4 + 8 = 8 - 3$	7) $3 + 3 = 9 - 3$
2) $4 + 4 = 8$	8) $7 - 1 = 4 + 3$
3) $11 - 3 = 5 + 3$	9) $7 = 15 - 3$
4) $9 + 3 = 15 - 3$	10) $15 = 3 + 4$
5) $13 - 4 = 4 + 4$	11) $10 + 7 = 19 - 3$
6) $8 + 8 = 19 - 3$	12) $20 - 4 = 9 + 5$

Variables and Equations - Unit Quiz

Part 1

Circle true if the equation is equal and false if it is not

1)	$2 + 4 = 5$	True	False
2)	$7 + 5 = 12$	True	False
3)	$7 - 4 = 4$	True	False
4)	$7 - 4 = 7$	True	False
5)	$7 - 4 = 5$	True	False
6)	$5 - 1 = 4$	True	False
7)	$13 - 2 = 9 + 2$	True	False
8)	$14 + 2 = 10 - 1$	True	False

Part 2

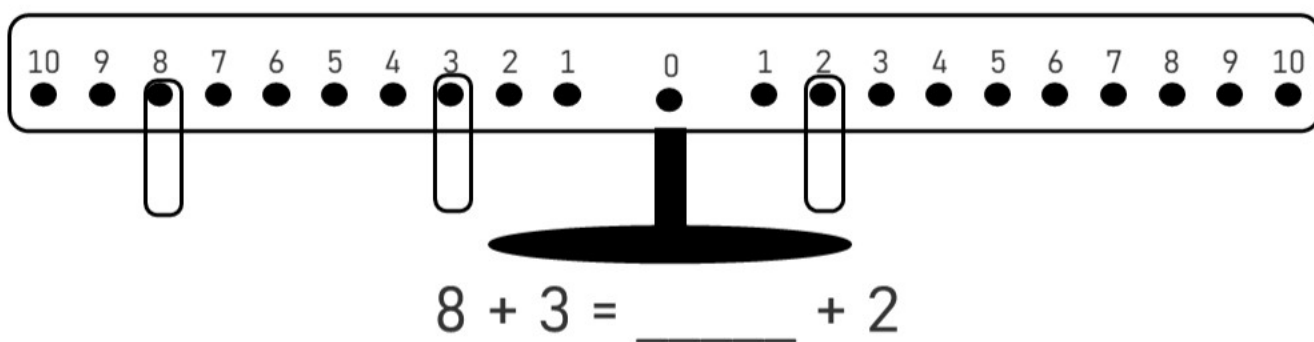
Circle the expression that matches the given expression

1)	$4 - 2$	$6 - 4$	$8 - 2$
2)	$14 - 3$	$12 - 2$	$15 - 4$
3)	$8 + 6$	$7 + 7$	$3 + 9$
4)	$12 + 4$	$11 + 5$	$13 + 4$

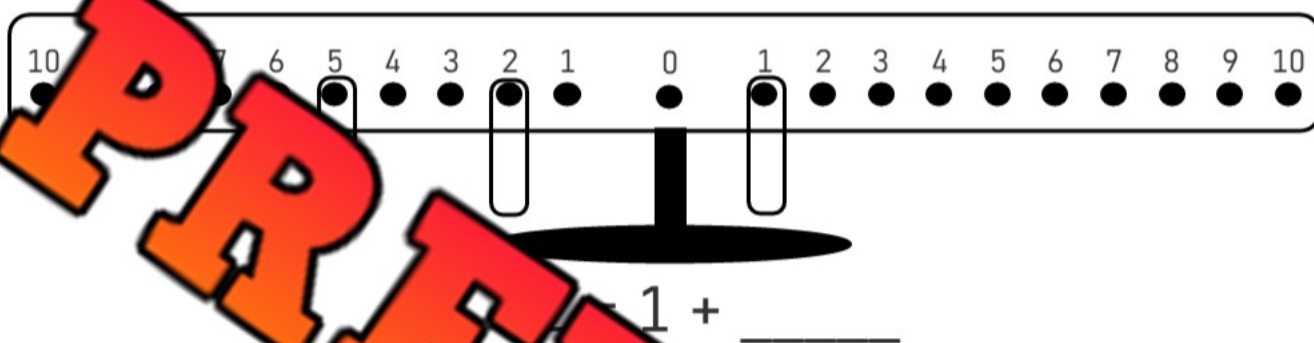
Part 3

Balance the equations below by filling in the blanks

1)



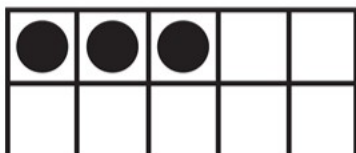
2)



Part 4

How many more dots are needed to add to make 10 or 20?

1)



$$3 + \underline{\quad} = 10$$

2)



$$10 + \underline{\quad} = 20$$

Part 5

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

Simon had 14 dollars in his piggy bank. He was given some money from his father for his birthday. He now has 20 dollars. How much did his father give him?

