



Preview – Information



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Google Slides Lessons Preview





Manitoba Math Curriculum Patterns & Relations – Grade 4

3-Part Lesson Format

Part 1 – Minds On!

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

LEARNING GOAL

We are learning to identify and describe increasing elements in different patterns so we can understand how and why patterns grow.

Increasing Patterns - Shapes

Drag the coloured block on top of the two blocks that were added to the pattern.

#	Figure 1	Figure 2	Figure 3	Figure 4
1)				
2)				
3)				

Part 2 – Action!

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

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Word Problems: Growing Patterns - Addition

1) Marlowe has a small plant collection. She places 2 plants on her windowsill on Monday. Each day after that, she adds 3 more plants. How many plants will she have on the windowsill by Friday?



2) Iris is making bead bracelets. She uses 6 beads for the first bracelet and adds 4 more beads for every bracelet she makes after that. How many beads will she use in total for four bracelets?





Manitoba Math Curriculum Patterns & Relations – Grade 4

Patterns Within Number Strings (2s)

Drag the numbers to complete the decreasing patterns below.

1 2 3 4 5 6 7 8 9 0

1)	23	21	19	17	___	___	___	___	___	___
2)	66	64	62	60	___	___	___	___	___	___
3)	81	79	77	75	___	___	___	___	___	___
4)	100	98	96	94	___	___	___	___	___	___

the first one is

1 2 3 4 5 6 7 8 9 0

Rule = Divide by 3		Rule = Divide by 2		Rule = Divide by 1		Rule = Divide by 5		Rule = Divide by 10	
In	Out	In	Out	In	Out	In	Out	In	Out
9	3	6		4		10		10	
18	6	14		12		15		20	
24	8	10		8		25		40	
30	10	24		16		40		60	
36	12	40		20		50		80	

Table of values

Drag the numbers to fill in the tables of values below and determine the increasing/decreasing pattern.

1 2 3 4 5 6

Term Number	Term Value
1	88
2	95
3	102
4	
5	
6	

+

+

+

+

+

+

Term Number	Term Value
1	97
2	92
3	87
4	
5	
6	

-

-

-

-

-

-



Manitoba Math Curriculum Patterns & Relations – Grade 4

Patterning Word Problem - Shapes

A class is competing to build the longest bridge using toothpicks to form a chain of squares. To save toothpicks, the squares are connected so they share one side.

1 Square 2 Squares 3 Squares

Term Number (Squares)	1	2	3	4	5	20
Term Value (# of toothpicks)						

1 2 3 4 5 6 7 8 9 0

1) How many toothpicks would be needed for...

a) 11 squares b) 35 squares

2) If you have exactly 34 toothpicks, how many connected squares can you build?

Venn Diagrams - Subsets

Sort the numbers into the correct categories in the Venn Diagrams

5.58"

Numbers greater than 400

Multiples of 10 that are greater than 400

NUMBER BANK

275 430 517

360 680 445

190 720 563

400 810 492

325 950 671

Multiple of 4

Not a multiple of 4

More Than 80

Less Than 80

Multiples of 4

Not a multiple of 4

NUMBER BANK

16 28 44 72 84 96

140 19 35 58 73 87

112 101 126 153



Workbook Preview

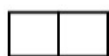


Grade 4 Patterns

	Curriculum Expectations	Pages That Cover the Expectations
PR.1	Identify and describe patterns found in tables and charts, including a multiplication chart.	3 – 31, 33
P	Preview of 50 pages from this product that contains 101 pages total.	
PR.3	Represent and describe patterns and relationships using charts and tables to solve problems.	32, 34 – 35, 37 – 46
PR.4	Identify and explain mathematical relationships using charts and diagrams to solve problems.	47 – 55

Creating Patterns with Squares

Part 1 Draw the next figure in the pattern by adding one block



1) Figure 1

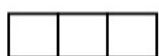


Figure 2

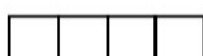


Figure 3

Figure 4



2) Figure 1

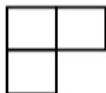


Figure 2

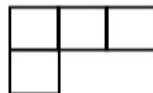


Figure 3

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 by adding two blocks. Shade in the added blocks



1) Figure 1

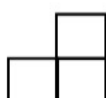


Figure 2



Figure 3

Figure 4



2) Figure 1

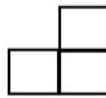
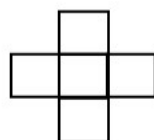


Figure 2



Figure 3

Figure 4



3) Figure 1

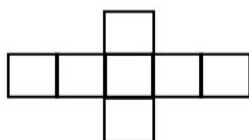


Figure 2

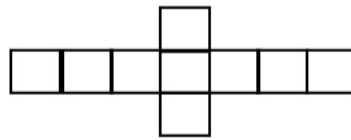


Figure 3

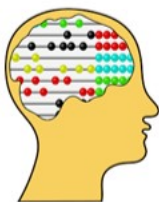
Figure 4

Name: _____

6

Curriculum Connection
PR.1

Growing Patterns - Addition



Growing/Increasing Patterns

+10 +10 +10 +10 +10
 $\wedge \quad \wedge \quad \wedge \quad \wedge \quad \wedge$
 10, 20, 30, 40, 50, 60

+5 +5 +5 +5 +5
 $\wedge \quad \wedge \quad \wedge \quad \wedge \quad \wedge$
 3, 8, 13, 18, 23, 28



Part 1

Growing Patterns - Addition

1) $\wedge$
 2, 4, _____

$\wedge \quad \wedge$
 2) 6, 10, 14, _____, _____, _____

$\wedge \quad \wedge$
 3) 22, 27, 32, _____, _____

$\wedge \quad \wedge$
 4) 55, 58, _____, _____, _____

$\wedge \quad \wedge$
 5) 73, 80, 87, _____, _____, _____

$\wedge \quad \wedge$
 6) 12, 15, _____, _____, _____

Part 2

Follow the rule by adding the next number in the pattern

1) (Add 2)

7, 9, 11, _____, _____, _____

2) (Add 3)

22, 25, 28, _____, _____, _____

3) (Add 6)

43, 49, 55, _____, _____, _____

4) (Add 5)

62, 67, 72, _____, _____, _____

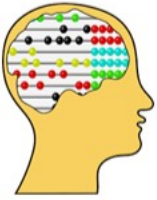
5) (Add 10)

83, 93, 103, _____, _____, _____

6) (Add 4)

147, 151, 155, _____, _____, _____

Shrinking Patterns - Subtraction



Shrinking/Decreasing Patterns

-10 -10 -10 -10 -10
 $\wedge \wedge \wedge \wedge \wedge$
 60, 50, 40, 30, 20, 10

-5 -5 -5 -5 -5
 $\wedge \wedge \wedge \wedge \wedge$
 45, 40, 35, 30, 25, 20



Part 1

Fill in the missing numbers in the pattern

1) 12, $\wedge$, 8, _____

2) 23, $\wedge$ 19, $\wedge$ 15, _____, _____, _____

3) 44, $\wedge$ 37, $\wedge$ 30, _____, _____, _____

4) 75, $\wedge$ 65, $\wedge$ 55, _____, _____, _____

5) 56, $\wedge$ 48, $\wedge$ 40, _____, _____, _____

6) 65, $\wedge$ _____, _____, _____, _____, _____

Part 2

Follow the rule by subtracting the number in the pattern

1) (Subtract 2)

18, 16, 14, _____, _____, _____

2) (Subtract 3)

30, 27, 24, _____, _____, _____

3) (Subtract 5)

58, 53, 48, _____, _____, _____

4) (Subtract 10)

102, 92, 82, _____, _____, _____

5) (Subtract 6)

127, 121, 115, _____, _____, _____

6) (Subtract 12)

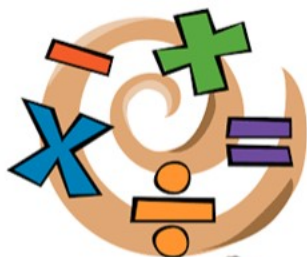
175, 163, 151, _____, _____, _____

Name: _____

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Curriculum Connection
PR.1**Input/Output Table - Addition****Rule: add 5**

In	Out
25	30
45	50
65	70
85	90



Question: Fill in the input/output tables below

Rule: add 3

In	Out
20	
30	
50	
120	

Rule: add 4

In	Out
15	
47	
78	
11	

Rule: add 6

In	Out
2	
18	
44	
92	

Rule: add 9

In	Out
73	
98	
117	
168	

Rule: add 7

In	Out
22	
33	
54	
85	

Rule: add 12

In	Out
15	
42	
85	
124	

Name: _____

20

Curriculum Connection
PR.1**Input/Output Table - Subtraction****Rule: subtract 5**

In	Out
35	30
50	45
65	60
80	75



Question: Fill in the input/output tables below

Rule: subtract 5

In	Out
10	
32	
58	
103	

Rule: subtract 10

In	Out
44	
78	
146	
25	

Rule: subtract 4

In	Out
4	
28	
79	
108	

Rule: subtract 8

In	Out
88	
110	
167	
189	

Rule: subtract 6

In	Out
18	
35	
88	
135	

Rule: subtract 12

In	Out
72	
108	
145	
181	

Input/Output Table - Multiplication**Rule: multiply by 2**

In	Out
1	2
3	6
5	10
7	14

Questions 1-5 in the input/output tables below

Rule: multiply by 2

In	Out
2	
5	
10	
20	

Rule: multiply by 6

In	Out
2	
4	
6	
8	

Rule: multiply by 4

In	Out
2	
4	
6	
8	

Rule: multiply by 3

In	Out
3	
6	
9	
10	

Rule: multiply by 5

In	Out
1	
3	
5	
7	

Rule: multiply by 10

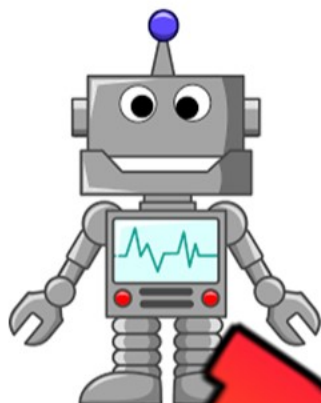
In	Out
2	
5	
8	
10	

Name: _____

22

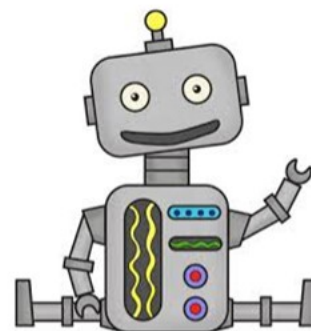
Curriculum Connection
PR.1

Input/Output Table - Division



Rule: divide by 2

In	Out
10	5
8	4
6	3
4	2



Questions 1-4 in the input/output tables below

Rule: divide by 1

In	Out
1	
5	
10	
20	

Rule: divide by 2

In	Out
6	
10	
14	
20	

Rule: divide by 3

In	Out
6	
9	
12	
15	

Rule: divide by 4

In	Out
4	
8	
16	
32	

Rule: divide by 5

In	Out
10	
20	
40	
50	

Rule: divide by 10

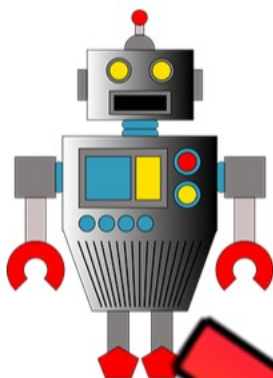
In	Out
10	
20	
50	
100	

Name: _____

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Curriculum Connection
PR.1

Pattern Rule - Input/Output Tables



Add 10 → or Subtract 10 ←

In	Out
20	30
30	40
50	60
90	100



Questions 1-5 in the input/output tables below

In	Out
10	
30	
	55
70	

Rule: add 3	
In	Out
3	
12	
	30
7	

Rule: subtract 6	
In	Out
	20
38	
59	
	62

Rule: subtract 4	
In	Out
20	
66	
	83

Rule: subtract 2	
In	Out
12	
72	
	88
	92

Rule: add 6	
In	Out
3	
12	
	20
	38

Name: _____

25

Curriculum Connection
PR.1

Multiplication Chart - Patterns



Questions

Fill in the multiplication table below

x	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

PREVIEW

Name: _____

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Curriculum Connection
PR.1

Multiplication Chart - Patterns



Questions

Fill in the multiplication table below

x	1	2	3	4	5	6	7	8	9	10
1			3		5		7		9	10
2				8		12		16		
3			9			18			27	30
4	4	8		16			28		36	
5		10	15			30				
6	6		18		30					60
7		14		28	35	42				63
8	8	16		32			56	64		80
9			27			54			81	90
10	10	20		40			70		90	

Multiplication Chart - Patterns

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Questions

Follow the instructions below

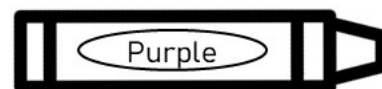
1) Count by 2's and colour the numbers



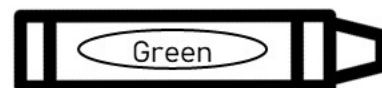
2) Count by 3's and colour the numbers



3) Count by 5's and colour the numbers



4) Count by 10's and colour the numbers



Name: _____

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Curriculum Connection
PR.1

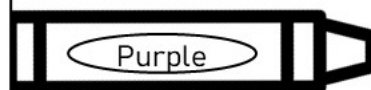
Multiplication Chart - Patterns

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	2	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Questions

Answer the questions and colour the chart based on the answers

3×3	5×5	7×6	9×2
2×4	7×2	5×7	6×6
4×5	10×9	8×8	9×7
4×3	9×3	8×6	7×7



T-Tables - Drawing Blocks

Questions

Fill in the T-Tables and draw figure 4

1) Figure 1 Figure 2 Figure 3 Figure 4






Figure	Lines
1	
2	
3	
4	

2) Figure 1 Figure 2 Figure 3 Figure 4

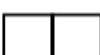
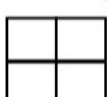





Figure	Lines
1	
2	
3	
4	

3) Figure 1 Figure 2 Figure 3 Figure 4

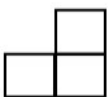
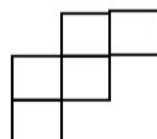
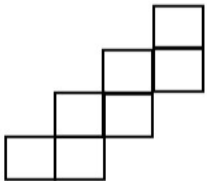
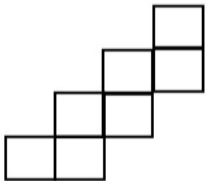





Figure	Lines
1	
2	
3	
4	

4) Figure 1 Figure 2 Figure 3 Figure 4

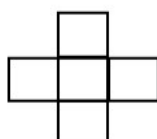
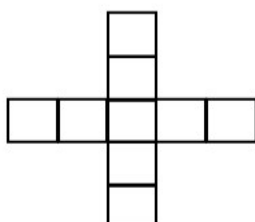
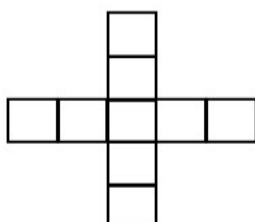





Figure	Lines
1	
2	
3	
4	

Name: _____

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Curriculum Connection
PR.2, PR.3

Table of Values

Questions

Answers the questions below by using the table of values

When you work an hour, you get paid 22 dollars. Fill in the table to learn more about your earnings.

1) How many dollars will you make if you work 5 hours?

2) How many dollars will you make if you work 10 hours?



Hours Worked	Money Made
1	
2	
3	
4	
5	
10	

Kids	Sticks of Candy
1	
2	
3	
4	
5	
10	

Your family is having a birthday party for your birthday. There are 5 kids coming to the party. Each kid will get 7 pieces of candy.

1) How many sticks of candy do you need to buy?

2) What if 10 kids show up to the party? How many sticks of candy do you need now?

You scored 16 points in each basketball game this season. Fill in the table of values showing your game scores.



1) After your third game, how many points did you score?

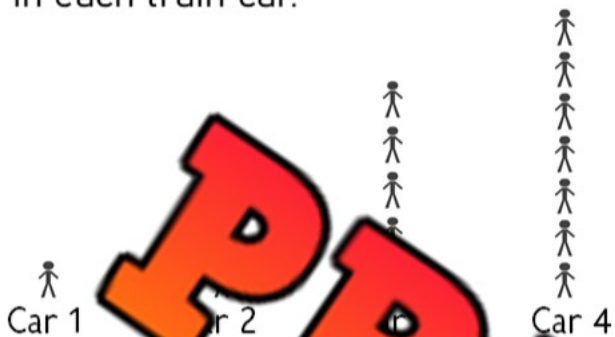
2) There were 8 games this season. How many points did you score in the season?

Games	Total Points Scored
1	
2	
3	
4	
5	
8	

Growing Patterns - Table of Values

Questions Translate the growing patterns into a table of values and a graph

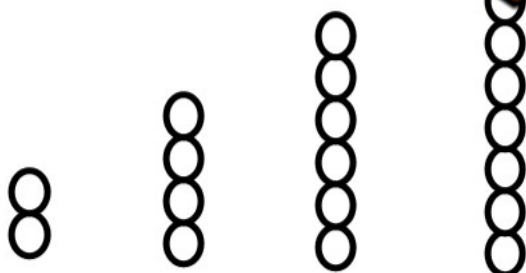
1) A train has the following people in each train car.



Term Number (cars)	Term Value (people)
1	
2	
3	
4	
7	

Pattern Rule:

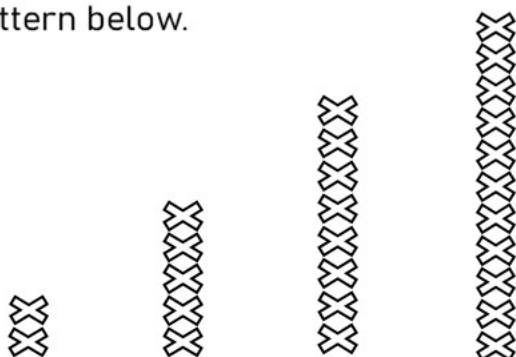
2) Fill in the table of values and graph by translating the growing pattern below.



Term Number	Term Value
2	
3	
4	
8	

Pattern Rule:

3) Fill in the table of values and the graph by translating the growing pattern below.



Term Number	Term Value
1	
2	
3	
4	
9	

Pattern Rule:

Name: _____

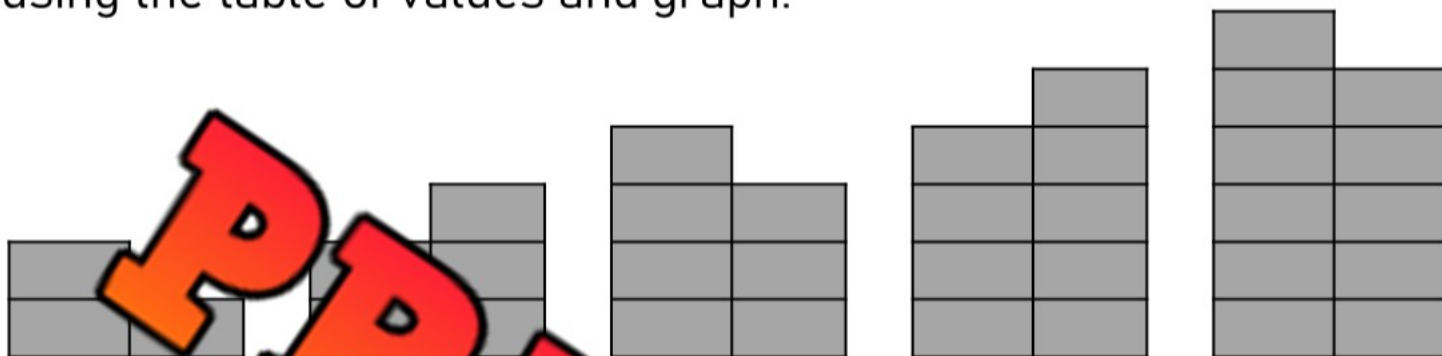
37

Curriculum Connection
PR.2, PR.3

Growing Pattern Challenge

Questions Complete the table of values and answer the questions below

Joel has created a pattern using his blocks. Translate the pattern using the table of values and graph.



Term Number	1	2	3	4	5	6	7	8	9	10
Term Value										

Pattern Rule: _____

1) How many blocks would Joel use in his 10th shape if he continued his pattern?

2) Which shape (term number) would use 27 blocks?

3) How many blocks would it take to create the 15th shape (term number)?

4) How many blocks would it take to create the 32th shape (term number)?

Push-Up Challenge

Questions

Complete the table of values and answer the questions below

Brayden was challenged by a friend to do 15 push-ups a day for 2 weeks. Complete the table of values below to see his push-up progress.

Term Number (Days)	1	2	3	4	5	6	7	8	9	10
Term Value (Pushups)										

Pattern Rule: _____

1. Which day did Brayden complete 15 pushups?	
2. How many pushups did he complete on day 10?	
3. If his friend did 20 pushups for 7 days, who would have done more? Explain.	
4) How many pushups would he do if he continued his challenge for 3 weeks?	
5) How many days would it take him to do 375 pushups?	

Patterning Word Problem - Halloween

Questions

Follow the problem-solving steps below

- | | | |
|---|--|--|
| ☐ Read the problem carefully | ☐ Underline important information | ☐ Draw pictures |
| ☐ Create a table or chart | ☐ Solve the problem | ☐ Check your answer |

Ben is trick or treating for Halloween. He leaves his house with 13 candies to start. He gets 4 candies for each house he visits. He visits 10 houses.

a) Draw the problem.



b) How many total candies does he get after visiting the 10 houses?



Name: _____

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Curriculum Connection
PR.2, PR.3

Patterning Word Problem - Growing Hair

Questions

Follow the problem-solving steps below

- | | | |
|---|--|--|
| ☐ Read the problem carefully | ☐ Underline important information | ☐ Draw pictures |
| ☐ Create a table or chart | ☐ Solve the problem | ☐ Check your answer |

Tyler's hair is 50mm long in January. In February his hair is 62mm long. In March his hair is 74mm long.

a) How long will his hair be in April if the pattern continues?

b) How long will his hair be in July?



Patterning Word Problem - Overdue Book

Questions

Follow the problem-solving steps below

- | | | |
|---|--|--|
| ☐ Read the problem carefully | ☐ Underline important information | ☐ Draw pictures |
| ☐ Create a table or chart | ☐ Solve the problem | ☐ Check your answer |

Berlin checked out a book at her library. She hasn't returned it yet and is worried about late fees. If she returns it one day late, it costs an extra 1¢. If she brings it back 2 days late, it will cost 2¢ and on the third day late, it will cost 3¢. On the fourth day, it will cost 4¢ and on the fifth day, it will cost 5¢. On the sixth day, it will cost 6¢ and on the seventh day, it will cost 7¢. The pattern will continue.

a) How much will it cost Berlin if she brings back the book 7 days late?

b) Whoops, Berlin didn't bring back the book for 12 days. How much will it cost her?



Patterning Word Problem - Toothpicks**Questions**

Follow the problem-solving steps below

- | | | |
|---|--|--|
| ☐ Read the problem carefully | ☐ Underline important information | ☐ Draw pictures |
| ☐ Create a table or chart | ☐ Solve the problem | ☐ Check your answer |

Juan uses toothpicks to make a pattern. Each line is a toothpick.



Figure 1

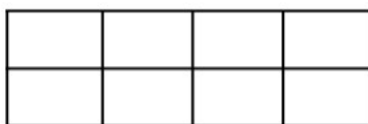


Figure 3

a) How many toothpicks will Juan need to make figure 4?

b) Juan thinks he will need 55 toothpicks to make the 10th figure. Is he right? Explain.

Name: _____

47

Curriculum Connection
PR.4

Sorting Data - Carroll Diagram

Part 1

Sort the numbers into the correct categories



	Number greater than 100	Number less than 100
Odd number		
Even Number		

Part 2

Give examples of numbers that fit the following categories

Can you think of another number that...

1. Is odd and greater than 100? _____
2. Is odd and less than 100? _____
3. Is even and greater than 100? _____
4. Is even and less than 100? _____
5. Is even and between 50 and 100? _____
6. Is odd and between 300 and 1000? _____

Name: _____

49

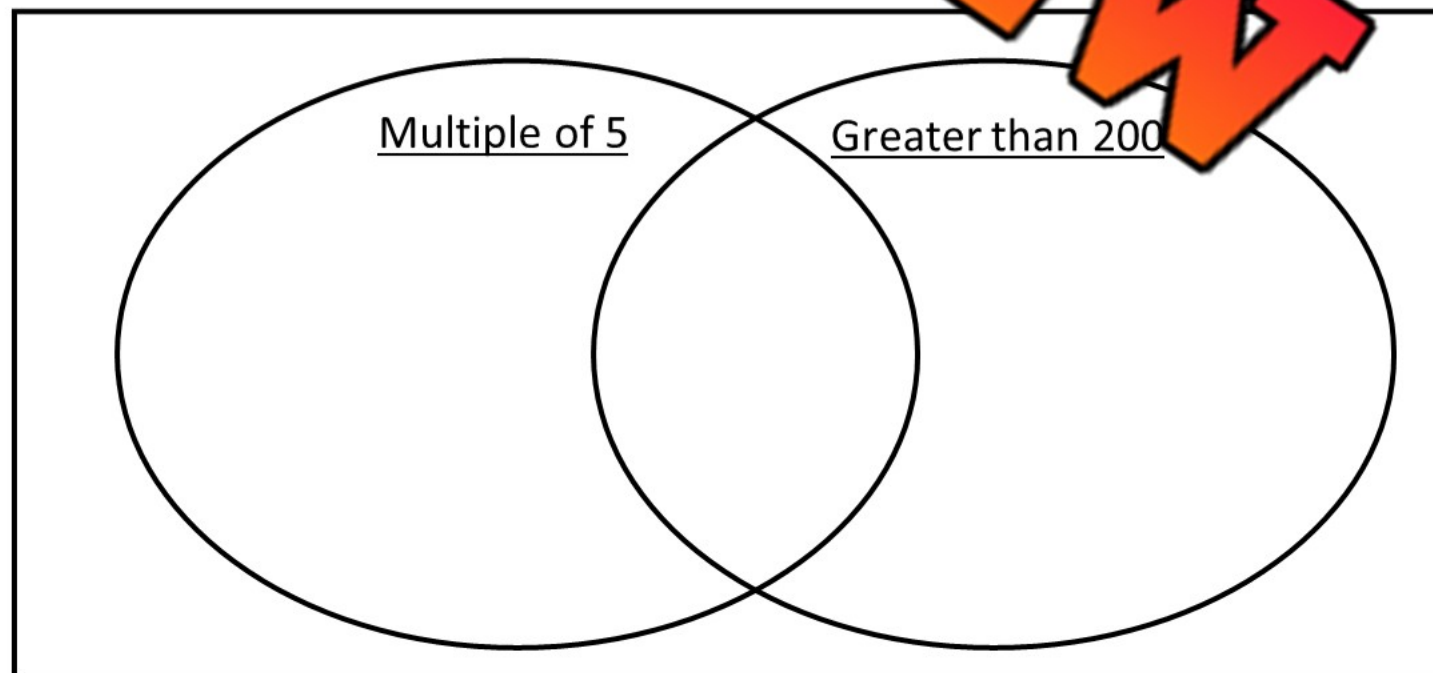
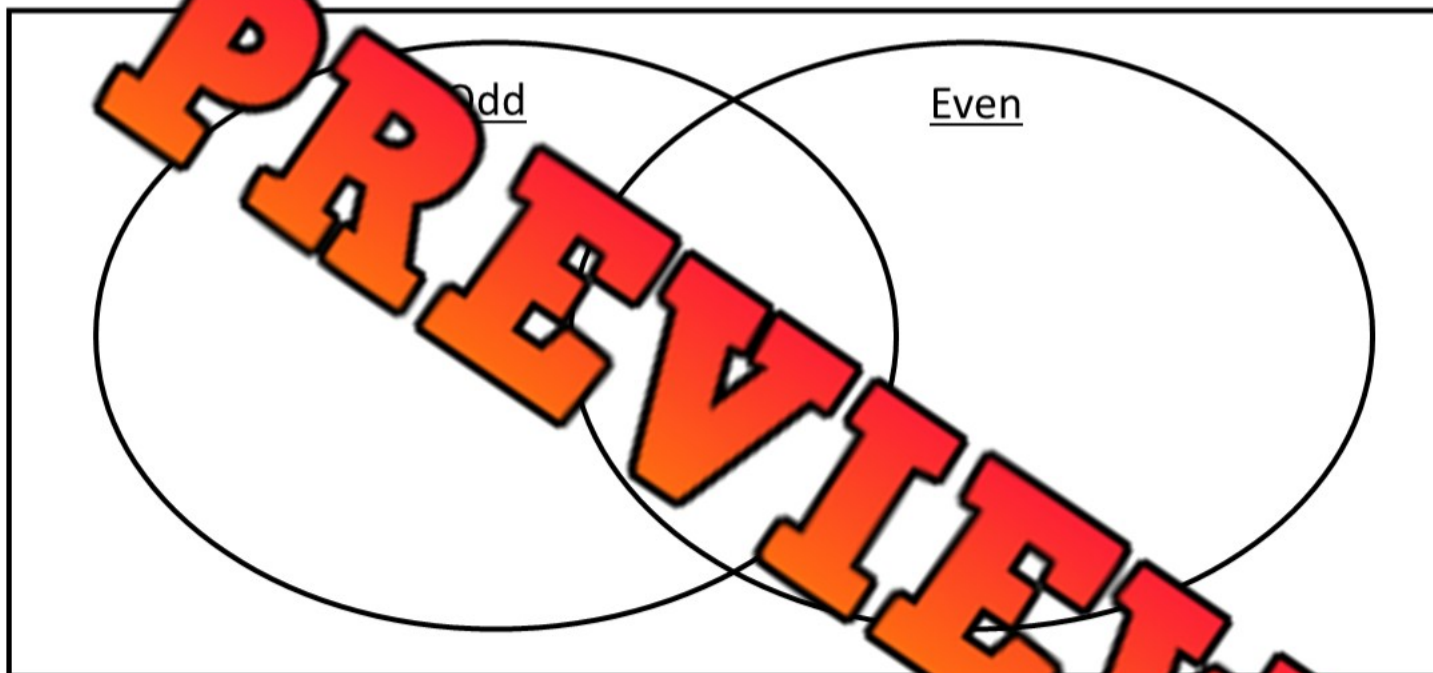
Curriculum Connection
PR.4

Sorting Data - Venn Diagram

Questions

Sort the numbers into the correct categories

135	305	110	158	242	230
315	117	223	250	165	195



Name: _____

50

Curriculum Connection
PR.4**Sorting Data - Carroll Diagram**

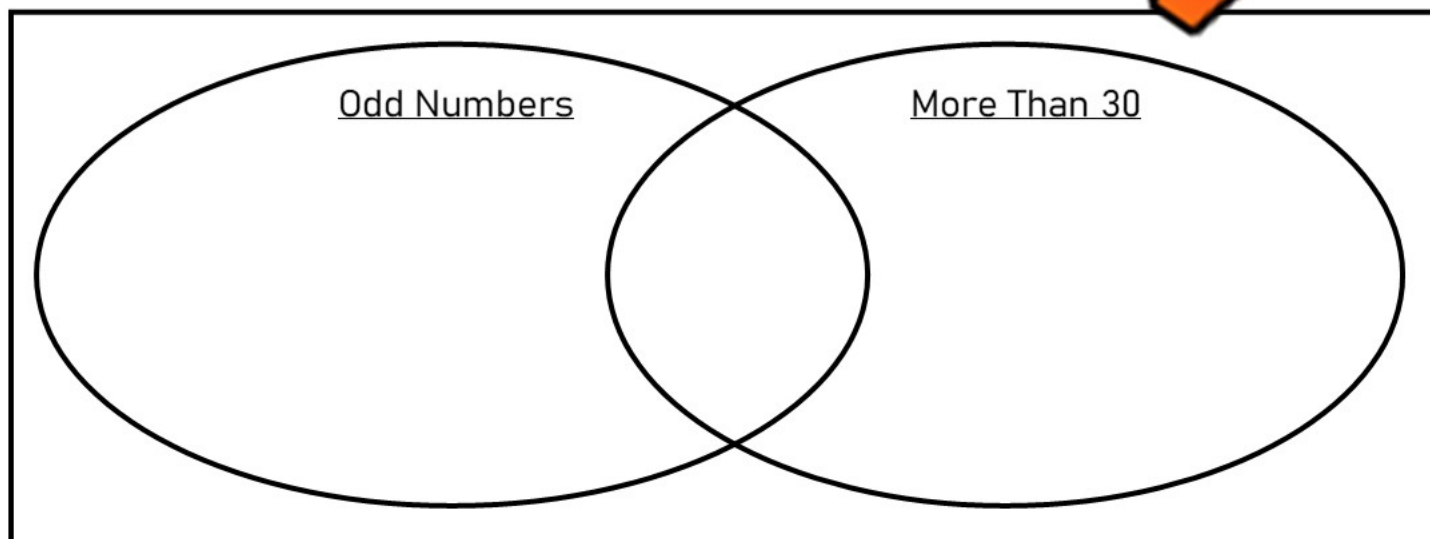
22	36	13	75	56
25	41	27	47	1

Part 1 Sort the numbers into the correct categories in the Carroll diagram

	Less Than 30	More Than 30
Odd Numbers		
Even Numbers		

Part 2 Fill in the table below

	Less Than 30	More Than 30	Total
Odd Numbers	4		
Even Numbers			
Total			

Part 3 Sort the numbers using the Venn Diagram

Name: _____

51

Curriculum Connection
PR.4**Sorting Numbers - Venn, Two-Way, Carroll**

43	77	132	103	22
38	135	126	98	163

Part 1

Sort the numbers into the correct categories in the Carroll diagram

	Less Than 100	More Than 100
Odd Numbers		
Even Numbers		

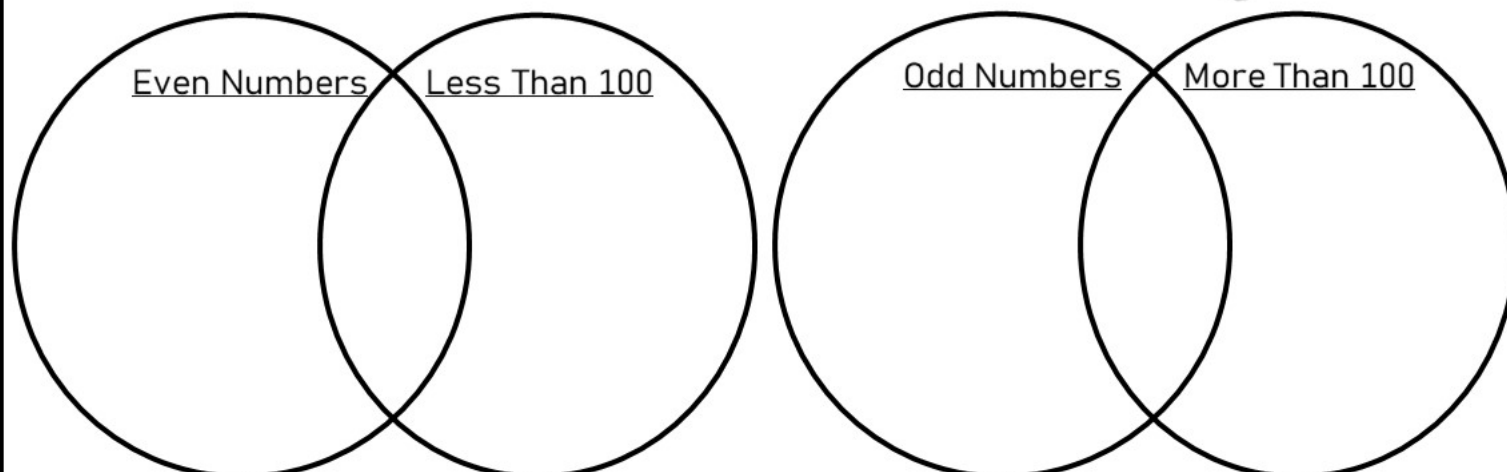
Part 2

Fill in the two-way table

	Less Than 100	More Than 100	Total
Odd Numbers	2		
Even Numbers			
Total			

Part 3

Sort the numbers using the Venn Diagrams



Name: _____

52

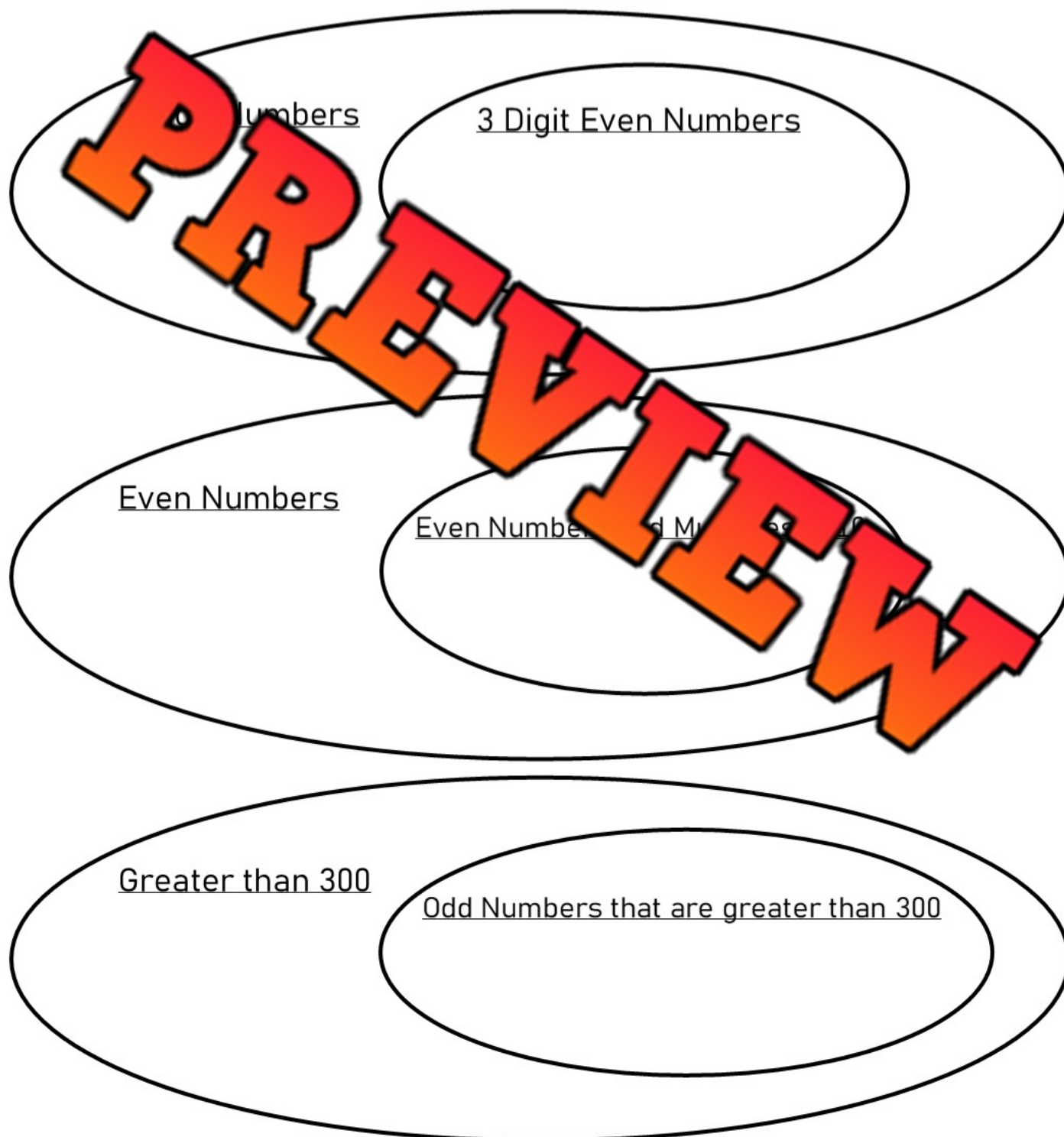
Curriculum Connection
PR.4

Venn Diagrams - Subsets

418	240	384	430	250
327	580	470	341	200

Questions

Sort the numbers into the correct categories in the Venn Diagrams



Name: _____

53

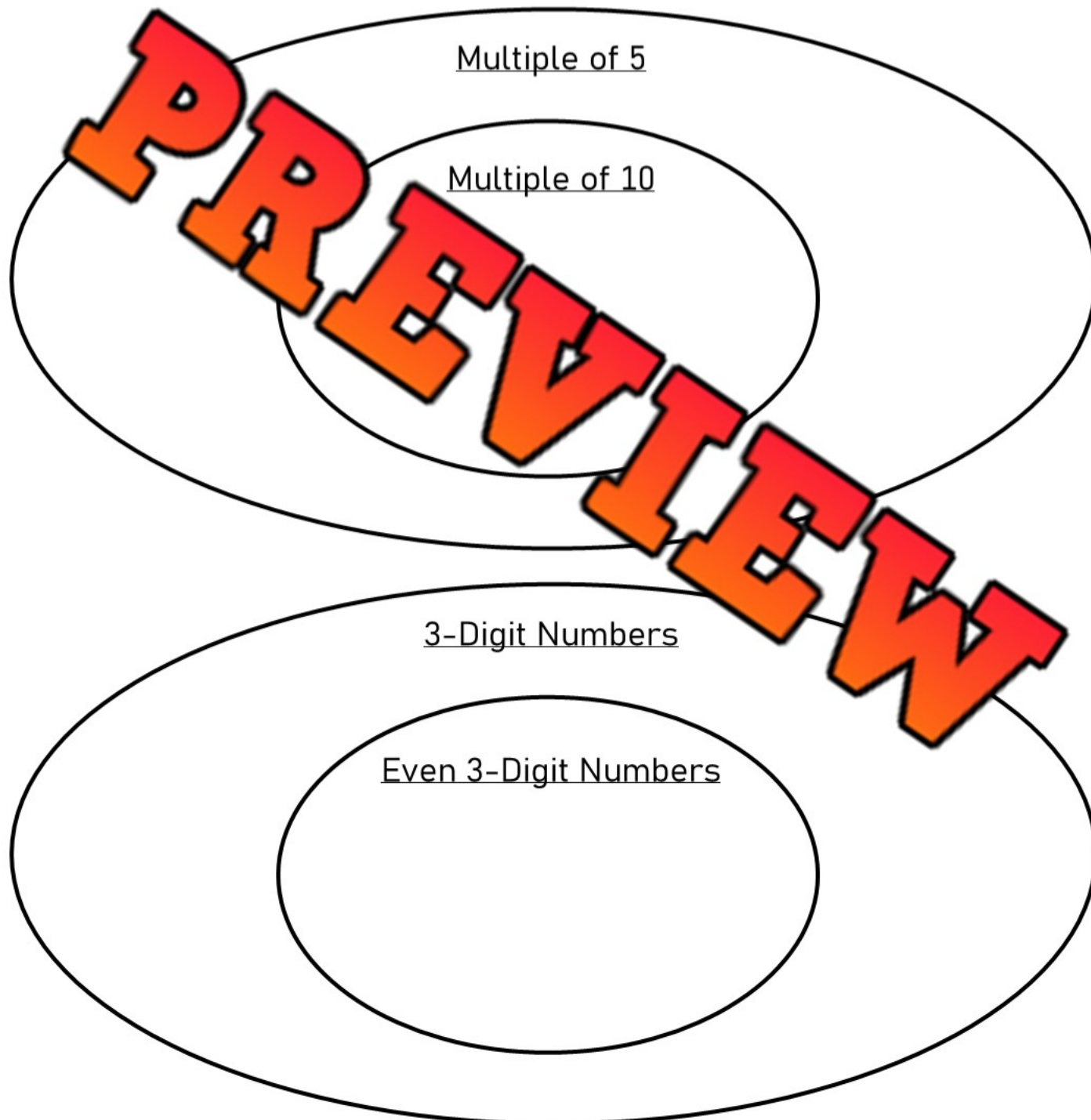
Curriculum Connection
PR.4

Venn Diagrams - Subsets

100	125	160	135	105
190	140	115	175	180

Questions

Sort the numbers into the correct categories in the Venn Diagrams



Name: _____

54

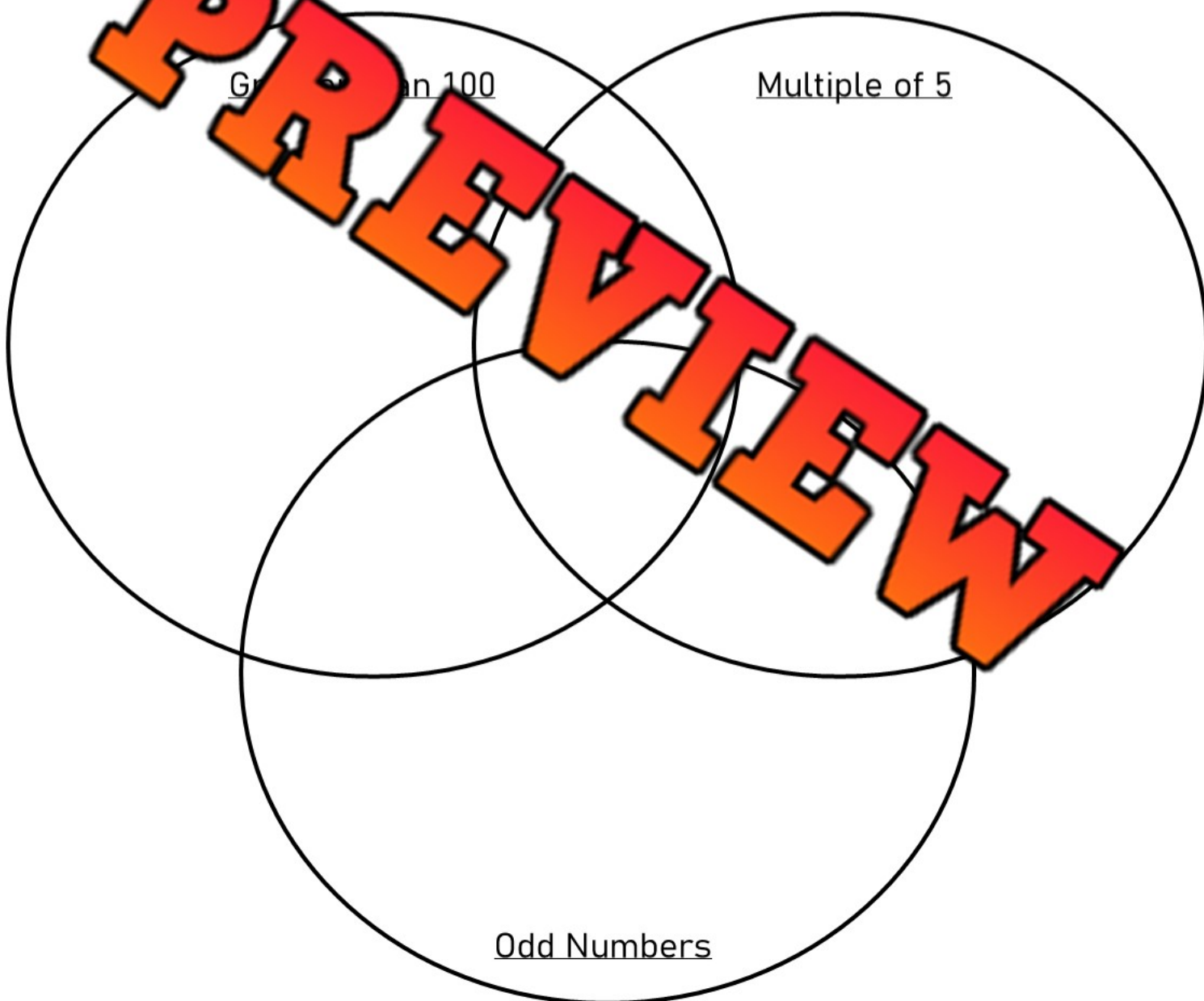
Curriculum Connection
PR.4

3 Circle Venn Diagrams

78	90	65	103	166
41	108	115	130	67

Questions

Sort the numbers into the correct categories in the Venn Diagrams



Name: _____

56

Algebra Quiz - Patterning

Part 1

Fill in the multiplication chart below

x	1	2	3	4	5	6	7	8	9	10
1		2		4		6		8		10
2	2		6		10		14		18	
3		6		12		18		24		30
4			12		20		28		36	
5				20		30		40		50
6	6		18		30		42		54	
7		14		28		42		56		70
8	8		24			56		72		
9		18		36			72			90
10	10		30		50			90		

Part 2

Follow the rule to extend the growing thinking patterns

1) (Add 5)

13, 18, 23, _____, _____, _____

2) (Add 7)

23, 30, 37, _____, _____, _____

3) (Subtract 6)

57, 51, 45, _____, _____, _____

4) (subtract 12)

82, 70, 58, _____, _____, _____

5) (Multiply by 2)

3, 6, 12, _____, _____, _____

6) (Divide by 2)

160, 80, 40, _____, _____, _____

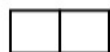
Part 3

T-Tables

Term Number	Term Value	
1	4	+
2	8	+
3	12	+
4		+
		+
		+

Term Number	Term Value	
1	89	-
2	79	-
3	69	-
4		-
5		-
6		-

Figure 4



3) Figure 1

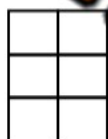


Figure 2



Figure 3

Figure 4

Figure	Term Value
1	
2	
3	
4	

Part 4

Solve the word problem. Show your work!

If you read 2 books on Monday, 4 books on Tuesday, 6 books on Wednesday, how many books would you read on Sunday if you continued?

How many days would it take you to read 132 books?

Part 5

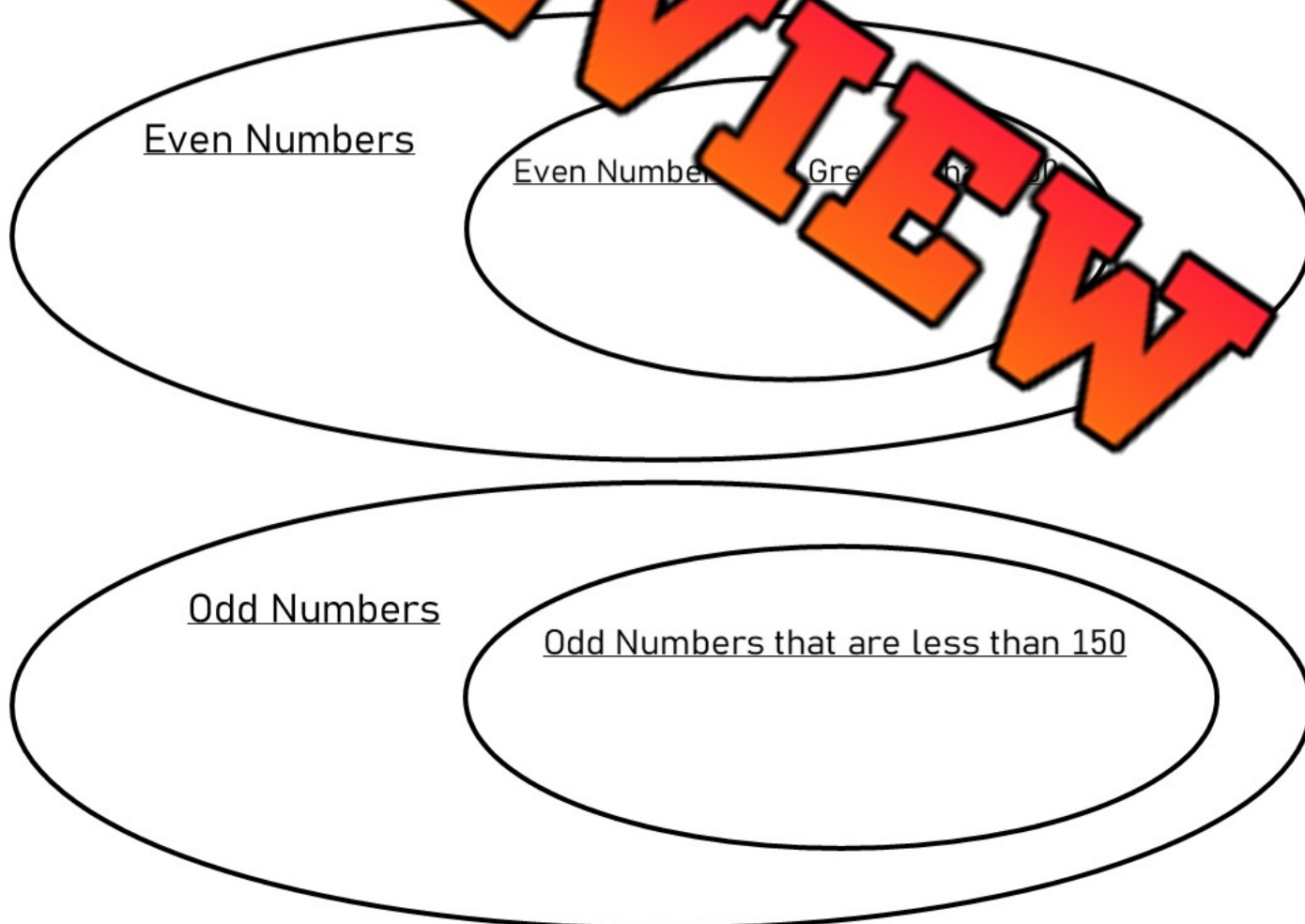
Sort the numbers into the correct categories in the Carroll Diagram

77	113	185	324	66	20
166	203	87	99	207	348

	2 Digits	3 Digits
Odd Numbers		
Even Numbers		

Part 6

Sort the numbers into the correct categories in the Venn Diagrams



Name: _____

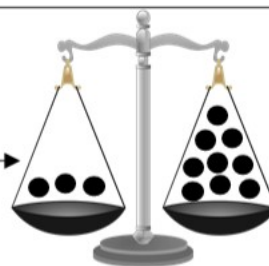
60

Curriculum Connection
PR.6

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.

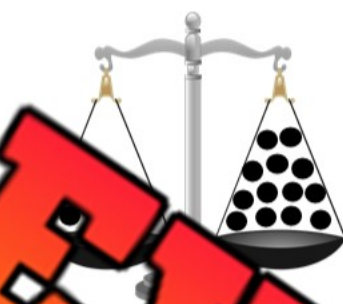


3	+	6	=	9
---	---	---	---	---

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



8	+		=	11
---	---	--	---	----



	+		=	
--	---	--	---	--



8	+		=	14
---	---	--	---	----



5	+		=	9
---	---	--	---	---



7	+		=	12
---	---	--	---	----



2	+		=	13
---	---	--	---	----



6	+		=	10
---	---	--	---	----



3	+		=	14
---	---	--	---	----



1	+		=	12
---	---	--	---	----

Name: _____

61

Curriculum Connection
PR.6

Addition - Are They Equal?

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

$5 + 3 = 8$

$21 + 10 \neq 30$

$17 + 11 = 28$

Questions

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

1) $1 + 2 = 5$

2) $20 + 10 = 30$

3) $36 + 5 = 41$

4) $23 + 6 =$

5) $27 + 13 = 40$

6) $10 + 40 = 50$

7) $41 + 9 = 49$

8) $42 + 7 = 5$

9) $38 + 7 = 45$

10) $28 + 12 = 30$

11) $34 + 11 = 45$

12) $12 + 15 = 28$

13) $36 + 14 = 50$

14) $28 + 14 = 32$

15) $40 + 3 = 49$

16) $18 + 20 = 48$

17) $42 + 8 = 50$

18) $16 + 16 = 31$

19) $20 + 30 = 45$

20) $39 + 9 = 48$

21) $22 + 23 = 44$

Name: _____

62

Curriculum Connection
PR.6**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) $15 + \boxed{} = \boxed{}$

2) $23 + 6 = \boxed{}$

3) $34 + 5 = \boxed{}$

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

5) $\boxed{} + 7 = 28$

6) $26 + \boxed{} = 40$

7) $\boxed{} + 6 = 28$

8) $\boxed{} + 17 = 30$

9) $\boxed{} + 33 = 50$

10) $35 + 13 = \boxed{}$

11) $22 + \boxed{} = 32$

12) $\boxed{} + 10 = 40$

13) $24 + \boxed{} = 31$

14) $26 + 12 = \boxed{}$

15) $40 + \boxed{} = 50$

16) $26 + \boxed{} = 42$

17) $35 + 15 = \boxed{}$

18) $13 + \boxed{} = 25$

19) $44 + \boxed{} = 52$

20) $18 + 22 = \boxed{}$

21) $41 + \boxed{} = 50$

Name: _____

63

Curriculum Connection
PR.6

Addition - Which Equation Matches?

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

Example

$12 + 11$

$14 + 9$

$19 + 5$



Questions

Circle the equation that matches the shaded in equation

1)

$22 + 4$

$13 + 12$

2)

$16 + 12$

$14 + 7$

$15 + 14$

3)

$21 + 8$

$17 + 11$

$17 + 12$

4)

$25 + 10$

$15 + 15$

$17 + 12$

5)

$31 + 11$

$35 + 7$

$22 + 22$

6)

$35 + 12$

$40 + 6$

$25 + 22$

7)

$41 + 23$

$30 + 32$

$32 + 32$

Name: _____

66

Curriculum Connection
PR.6

Part Part Whole - Numbers to 20

Questions

How do the parts below equal the whole at the top

1)

11

2)

14

8

3)

4)

6

5

5)

12

7

6)

17

7)

10

5

8)

16

12

9)

14

8

10)

12

8

Part Part Whole - Numbers to 1000

Questions

How do the parts below equal the whole at the top

1)

320

285

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

2)

475

60

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

3)

4)

250

250

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

5)

445

395

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

6)

625

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

7)

750

125

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

8)

685

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

9)

840

125

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

10)

445

405

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

Word Problems - Solving Addition Equations

Questions

Answer the questions below – Write the addition equation sentences

1) Tim drove 31km to get to work. Then he drove to the store. When he got to the store, he had driven 58 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 33 more points for beating level 2. How many total points did he have after level 2?



Bonus – He had 78 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?



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



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



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



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



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



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



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



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



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

Pre-Algebra - Balancing Subtraction Equations

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

Examples:

$$\begin{array}{c} 9 \\ \wedge \\ 15 - 6 = \boxed{9} \end{array}$$

$$\begin{array}{c} 21 \\ \wedge \\ 27 - 6 = \boxed{21} \end{array}$$

Questions

Fill in the missing number to balance the equation

1) 15 -

2) 11 - 6 =

3) 10 - 5 =

4) 10 -

= 6

6) 14 - = 10

7) - 6 = 10

8) - 5 = 17

9) - 8 = 12

10) 35 - 10 =

11) 52 - = 40

12) - 7 = 10

13) 24 - = 17

14) 28 - 6 =

15) 18 - = 16

16) 43 - = 35

17) 45 - 15 =

18) 25 - = 10

19) 46 - = 31

20) 25 - 21 =

21) 45 - = 10

Name: _____

77

Curriculum Connection
PR.6

Subtraction - Which Equation Matches?

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

Example

$19 - 8$

$15 - 4$

$21 - 9$



Questions

Circle the equation that matches the shaded in equation

1)

 $19 - 8$

$21 - 9$

$19 - 6$

2)

 $33 - 7$

$40 - 20$

$30 - 8$

3)

$41 - 7$

$80 - 1$

$48 - 13$

4)

$47 - 20$

$31 - 5$

$15 - 9$

5)

$58 - 13$

$65 - 20$

$63 - 19$

6)

$89 - 14$

$80 - 15$

$90 - 15$

7)

$110 - 10$

$109 - 8$

$113 - 13$

Word Problems - Solving Subtraction Equations**Questions** Answer the questions below. Write the subtraction equation sentences

1) Mrs. Wilson had 64 pencils at the start of the school year. She gave all the kids in her class one pencil. She now has 36 pencils. How many students are in Mrs. Wilson's class?



2) Hudson saved _____ dollars and bought a new toy for 26 dollars. How many dollars does he have left?



Bonus: He saved 15 more dollars. Can he buy a video game for 80 dollars?

3) The grade 4 class planted 149 tomato seeds but only 37 tomato plants grew. How many plants did not grow?



Pre-Algebra - Balancing Multiplication Equations

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

$$\begin{array}{c} 15 \\ \swarrow \searrow \\ 5 \times 3 = 15 \end{array}$$

Examples:

$$\begin{array}{c} 6 \\ \swarrow \searrow \\ 2 \times 3 = 6 \end{array}$$

Questions

Fill in the missing number to balance the equation

1) $5 \times \square =$

2) $10 \times 3 = \square$

4) $10 \times \square = 40$

5) $3 \times \square = 6$

7) $\square \times 5 = 25$

8) $\square \times 5 = 45$

10) $5 \times 10 = \square$

11) $2 \times \square =$

13) $5 \times \square = 20$

14) $10 \times 10 = \square$

16) $2 \times \square = 8$

17) $3 \times 2 = \square$

19) $10 \times \square = 60$

20) $2 \times 9 = \square$

Name: _____

84

Curriculum Connection
PR.6

Multiplication - Which Equation Matches?

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

Example

2×3

1×6

4×2



Questions

Circle the equation that matches the shaded in equation

1)

10×1

6×2

2)

6×3

4×2

2×9

3)

5×4

1×2

6×3

4)

8×2

4×4

2×7

5)

9×4

7×5

6×6

6)

10×3

7×5

6×5

7)

8×3

6×4

7×3

Pre-Algebra - Balancing Division Equations

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

$$\begin{array}{c} 5 \\ \swarrow \searrow \\ 15 \div 3 = \boxed{5} \end{array}$$

Examples:

$$\begin{array}{c} 5 \\ \swarrow \searrow \\ \boxed{10} \div 2 = 5 \end{array}$$

Questions

Fill in the missing number to balance the equation

1) $8 \div \boxed{} =$

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

3) $10 \div \boxed{} = 5$

4) $6 \div \boxed{} = 2$

5) $\boxed{} \div 5 = 5$

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

7) $5 \div 1 = \boxed{}$

8) $20 \div \boxed{} =$

9) $15 \div \boxed{} = 3$

10) $10 \div 10 = \boxed{}$

11) $25 \div \boxed{} = 5$

12) $30 \div 6 = \boxed{}$

13) $10 \div \boxed{} = 2$

14) $18 \div 2 = \boxed{}$

Name: _____

89

Curriculum Connection
PR.6

Division - Which Equation Matches?

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

Example

$12 \div 4$

$9 \div 3$

$16 \div 4$

**Question**

Circle the equation that matches the shaded in equation

1)

$5 \div 1$

$12 \div 6$

2)

$6 \div 3$

$10 \div 2$

$12 \div 6$

3)

$16 \div 4$

$10 \div 2$

$28 \div 7$

4)

$25 \div 5$

$10 \div 2$

5)

$8 \div 2$

$15 \div 3$

$16 \div 4$

6)

$18 \div 3$

$30 \div 5$

$42 \div 6$

7)

$24 \div 6$

$49 \div 7$

$40 \div 10$

Name: _____

92

Curriculum Connection
PR.6

Division - Bar Model

Questions

Use the bar model to answer the division questions below

1) $48 \div 8$

48							

2) $36 \div 4$

36			

3) $36 \div 6$

36					

4) $80 \div 10$

80									

5) $24 \div 4$

24			

6) $30 \div 5$

30				

7) $42 \div 7$

42						

8) $72 \div 8$

72							

9) $49 \div 7$

49						

10) $48 \div 4$

48			

Division Word Problems - Bar Model**Questions** Use the bar model to answer the division questions below

1) Courtney has 54 candies to give away to her 6 friends. How many candies will each friend get?

54					

Division Equation Sentence: _____ = _____

2) Haley has \$72 to spend on vacation. She is making a budget to find out how much she can spend each day on vacation for 9 days. How much money can she spend each day?

72								

Division Equation Sentence: _____ ÷ _____ = _____

Division Word Problems - Bar Model**Questions** Use the bar model to answer the division questions below

1) Alex and her friends made \$28 selling lemonade. She split the \$28 equally between her and her friends. How many friends got paid \$7?

	28

Division Equation Sentence: _____ ÷ _____ = _____

2) Justin has 32 candies. He gives 4 candies to each of his friends. How many friends did Justin give candies to?

	32
4	

Division Equation Sentence: _____ ÷ _____ = _____