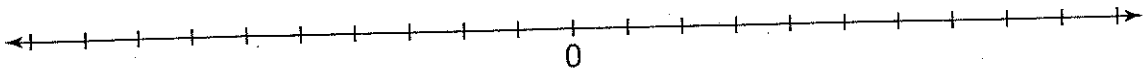
Name _____ Date _____

Master 2.22

Step-by-Step 9

Lesson 9, Question 8

Step 1 Label the number line with the missing integers.



Step 2 Circle the integers below on the number line:

–8, +4, +9, –5, 0, +8

Step 3 The farther to the right a number is, the _____ it is.
The farther to the left a number is, the _____ it is.

Step 4 Which circled integers are:

- greater than 0? _____
- between –3 and +3? _____
- greater than –10 and less than –5? _____
- less than +1? _____

Step 5 Write 3 other questions you can ask about the circled integers.
Answer your questions.

_____

_____

_____

_____

_____

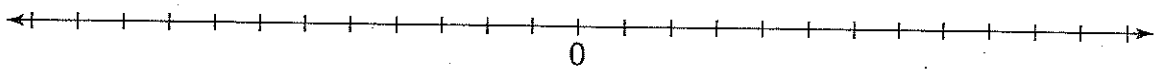
Name _____ Date _____

Master 2.21

Step-by-Step 8

Lesson 8, Question 9

Step 1 Label the number line with positive and negative numbers.



Step 2 12 noon is represented by 0 on the number line.

On which side of 0 will the times after 12 noon occur? _____

On which side of 0 will the times before 12 noon occur? _____

Step 3 Is 1 P.M. the same day before or after 12 noon? _____

Which integer represents 1 P.M. the same day? _____

Is 10 A.M. the same day before or after 12 noon? _____

Which integer represents 10 A.M. the same day? _____

Is 12 midnight the same day before or after 12 noon? _____

Which integer represents 12 midnight the same day? _____

Is 10 P.M. the previous day before or after 12 noon? _____

Which integer represents 10 P.M. the previous day? _____

Step 4 What strategy did you use to find the integers? _____

_____

Name _____ Date _____

Master 2.20

Step-by-Step 7

Lesson 7, Question 7

Step 1 Record the order of operations:

_____

_____

Step 2 Insert a pair of brackets in this expression. Then evaluate the expression.

$$10 + 20 - 12 \div 2 \times 3$$

Step 3 Insert the brackets in a different place.
Do this as often as you can.
Evaluate each expression.

$$10 + 20 - 12 \div 2 \times 3 =$$

$$10 + 20 - 12 \div 2 \times 3 =$$

$$10 + 20 - 12 \div 2 \times 3 =$$

$$10 + 20 - 12 \div 2 \times 3 =$$

$$10 + 20 - 12 \div 2 \times 3 =$$

$$10 + 20 - 12 \div 2 \times 3 =$$

$$10 + 20 - 12 \div 2 \times 3 =$$

Name _____ Date _____

Master 2.19

Step-by-Step 5

Lesson 5, Question 4

Step 1 List all the division facts for 34.

_____

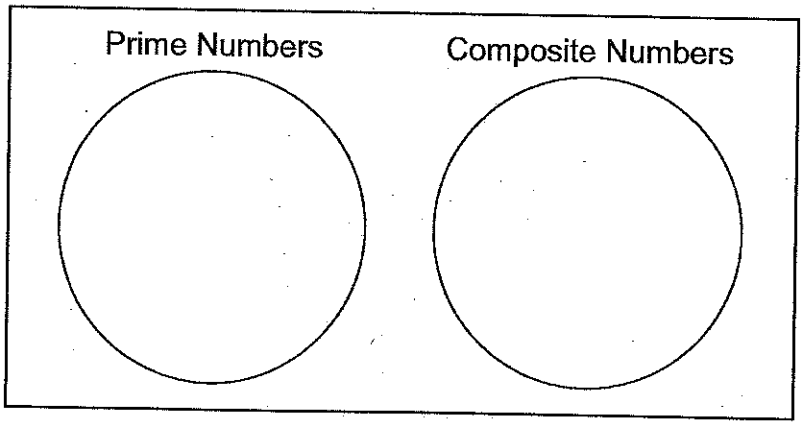
_____

Step 2 Record the factors from *Step 1* as a "rainbow."

How do you know you have found all the factors? _____

_____

Step 3 Use the Venn diagram to sort the factors.



What do you notice? _____

_____

Step 4 Repeat *Steps 1* to *3* for the numbers 40, 72, and 94.

Name _____ Date _____

Master 2.18

Step-by-Step 4

Lesson 4, Question 9

Step 1 Write the whole numbers between 20 and 28.

_____

Step 2 Look at the numbers in *Step 1*.

Cross off all the numbers that are divisible by 2.

Cross off all the numbers that are divisible by 3.

Cross off all the numbers that are divisible by 4.

Cross off all the numbers that are divisible by 5.

How many students signed up for the chess club? _____

Name _____ Date _____

Master 2.17

Step-by-Step 3

Lesson 3, Question 9

Step 1 A spider has 8 legs. An ant has 6 legs.

Complete the tables.

Spiders	
Number of Spiders	**Number of Legs**
1	8
2	
3	
4	
5	
6	
7	
8	

Ants	
Number of Ants	**Number of Legs**
1	6
2	
3	
4	
5	
6	
7	
8	

Step 2 What is the least number that appears in the *Number of Legs* columns in both tables? _____

How many spiders have a total of that many legs? _____

How many ants have a total of that many legs? _____

Name ____________________ Date ________________

Master 2.7

Integer Number Lines