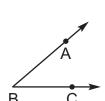


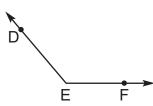
Vertex; Naming Angles

The point where the two rays of an angle meet is called the vertex.

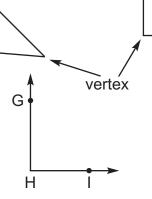
If an angle is marked with three points we can name it. Name one point, then name the vertex, then name the other point.



This is Angle ABC or Angle CBA



This is Angle DEF or Angle FED



This is Angle GHI or Angle IHG

★ Remember: When naming an angle, start at either end, but the vertex must be in the middle. ★

To make it even easier we can replace the word angle with a tiny acute angle symbol like this:

Angle ABC can be written ∠ABC.

Angle IHG can be written ∠IHG.

Name these angles. Use the angle symbol.

- 1. a. Y
- 2. a. L
- **b.** R S
- b. T



Write multiples of 3 and 5. Circle the common multiples.

- 3. ___ __ __ __ __ __ __ __ __ ___
- 4. ____ ___ ___ ___ ___ ___ ___
- **5.** Common multiples of 3 and 5 are ______.
- **6.** The LCM (lowest common multiple) of 3 and 5 is ______.

Write the products.

Estimate.



10 **9. a.**
$$-4\frac{5}{10}$$

b.
$$-1\frac{4}{5}$$

11 **c.**
$$-2\frac{1}{13}$$

$$\frac{4}{10}$$
e. + $\frac{2}{10}$

26,804

6 0 4 **d.**
$$\times$$
 8 2 7

Lesson 4

11.7 Three official languages are used in Bolivia. They are Spanish, Quechua, and Aymara. $\frac{7}{20}$ of the people speak Spanish. What fraction of the people do not speak Spanish? ___ of the people do not speak Spanish. Hint: Subtract from 1. $\stackrel{\wedge}{\sim}$ 12. Is this more or less than $\frac{1}{2}$? $\frac{13}{20}$ $\frac{1}{2}$

My Work Space

Find the areas. Remember, area is measured in square units.

- **13.** A square that measures 4 inches on each side. _____
- **14.** A rectangle that is 6 cm by 2 cm.

Think where the numbers would be if the number line were longer. Write < or > .



- **15**. **a**. -12 | | -15
- **b.** 2 -11 **c.** -4 -10
- **d.** -6

Continue making the graph on page iv by following these directions.

- \triangle **16.** Decide how many bars you need and label them at the bottom of the graph.
- \triangle **17.** Use a ruler to draw bars to the correct height.

Complete the analogies.

18. 32°F: freezing:: 212°F: _____

19. denominator : numerator : : bottom : _____

Α water pipe with a small hole the size of a pencil lead can leak up to 500 gallons of water per day!

Underline the correct choice.

20. If the rainy season in Bolivia lasts from December through February, and Sandra's vacation to Bolivia is in January, then Sandra will, will not need her umbrella.

— Mental Math . ?

22. a.
$$92 - 5 =$$
 _____ b. $46 - 9 =$ ____ c. $54 - 7 =$ ____

Put the digits in the correct places on these lines.

23. ____ ___ ___ ___ ___ ___ ____

Write a 4 in the hundreds place.

Write a 2 in the millions place and 5 in the tens place.

Write an 8 in the ten thousands place and a 6 in the hundred millions place.

Write a 5 in the ones place and a 1 in the hundred thousands place.

Write a 0 in the ten millions place and in the thousands place.

Read the fact and write the ratio.

Chocolate is made from the cacao tree, which grows wild in Bolivia. The cacao tree's fruit is a bean that is used to make cocoa and milk chocolate. In the wild, a cacao tree may grow 12 meters tall. Cultivated cacao trees grow only about 8 meters tall.



Find the volume of the rectangular solid.

25. 6 cm long, 2 cm wide, and 7 cm high ______

Connect the points and add arrows to make the following angles. Make sure the vertex is the middle letter.

- **26. a.** Draw ∠ABC.
- **b.** Draw ∠BAC.
- **c.** Draw ∠BCA.







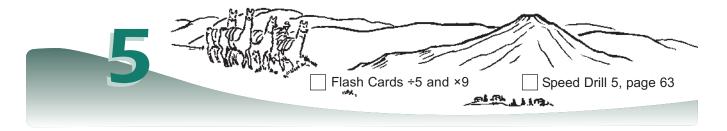
Write acute, obtuse, or right.

- **27**. **a**. ∠ABC _____ **b**. ∠BAC _____ **c**. ∠BCA _____

Lessons 4, 5

Complete the sentence.

28. a. 59.62 has _____ hundredths, ____ tenths, ____ tens, and ____ ones.



1	\									
) Tell	your	teacher	when	you	are	ready	for	Quiz	1.



Just for Fun

Completing Logic Grids

Complete the logic grid below to find each child's favorite fruit. Each child's favorite fruit is different.

Clue 1: Veronica, Roberto, and Raquel all like juicy fruit.

Clue 2: Veronica and Raquel cannot eat their favorite fruit without peeling it.

Clue 3: Raquel's fruit is round.

1.	Veronica	Roberto	José	Raquel
Banana				
Apple				
Pineapple				
Orange				

At school one day, *el maestro* (the teacher) told the students that each should bring something he had made to show the others. Some of the girls brought woven blankets and embroidery. Use the logic grid to find out what some of the boys brought.

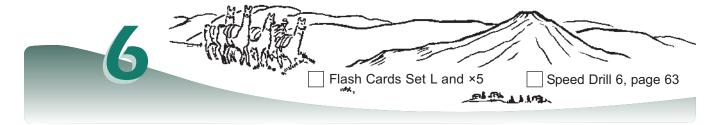
Clue 1: Marcos did not use wood or mud for his project.

Clue 2: Pedro left his project at school for the students and *el maestro* to use for storing their books.

2. Paper Piñata Bookshelf Mud Brick

Pedro

Marcos



Simplifying With Parentheses

When simplifying long expressions, you know we follow a special order to do the math. We always work from left to right. First we do all the multiplication and division. Then we do the addition and subtraction.

If we want to show a different order, we must use parentheses around the parts to be done first. So, now the correct order is:

Step 1

Do what is in parentheses ().

Step 2

Do the multiplication and division in the order they appear.

Step 3

Do the addition and subtraction in the order they appear.

1. ()

2. × and ÷

3. + and -

Lesson 6

Study the example:

Simplify
$$(12 - 2) \div 5 + 4 \times 5$$

Step 1

Do what is in

parentheses first.
$$\rightarrow (\underbrace{12-2}) \div 5 + 4 \times 5$$

 $10 \div 5 + 4 \times 5$

Step 2

Do all the multiplication

and division next.
$$\rightarrow \underbrace{10 \div 5}_{2} + \underbrace{4 \times 5}_{20}$$

Step 3

Do all the addition and

subtraction last.
$$\rightarrow 2 + 20$$

Simplify these expressions in the correct order.

1. a.
$$(7 + 2) \times 4 - 8 \times 4$$

()

simplified ______

2. a. $16 - 40 \div (5 \times 2)$

b.
$$6 \times (49 \div 7) + 4 \times 3$$
 c. $(8 + 7) \div 3 \times 10$

()

simplified ______

b.
$$3 \times (4+6) \div (4+2)$$
 c. $(6-3) \times (6\div 3) + 6$

c.
$$(8 + 7) \div 3 \times 10$$

() _____

simplified _____

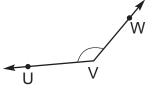
c.
$$(6-3) \times (6 \div 3) + 6$$

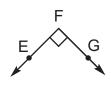


We Remember ——

Complete the sentences.

- 3. The right angle is named _____
- **4.** The angle that is more than 90° is named _____
- **5.** The vertex of the angle that is less than 90° is point _____.
- **6.** KJ is about ____ centimeters long. Round to the nearest centimeter.





— Skill Builders + X — Write remainders as fractions. —

7. a.
$$\frac{2}{14}$$

b.
$$\frac{11}{56}$$

b.
$$\frac{3}{56}$$
 48,265 14,875 36 c. $\frac{-28,915}{6}$ d. $\frac{+20,396}{6}$ e. $\frac{\times 29}{6}$

$$\frac{14,875}{d}$$
 + 20,396

8. a.
$$6)90$$
 b. $3)55$ c. $\times 96$ d. $\times 45$ e. $\times 15$

Write the number.

9. Seven hundred ninety-two million, four hundred three thousand, eight

Write multiples of 12 and 6. Circle the common multiples.

10. ____ __ __ __ __ __ __ __ __ __ __ ___ ___ ___

12. Common multiples of 12 and 6 are ______.

13. The LCM (lowest common multiple) of 12 and 6 is _____.

Write the numbers.

- **14.** A year has 12 months. $\frac{1}{6}$ year is _____ months.
- **15.** A pound has 16 ounces. $\frac{1}{8}$ pound is _____ ounces.

Lesson 6

6.7 There are 1.5 liters of water in the bucket. Mama needs 3.0 liters of water to make soup. How much more water does she need?

My Work Space

17.7 An alpaca is a llamalike animal that lives high in the Bolivian mountains. Its wool is used to make soft, warm cloth. Wool from a large alpaca weighed 2.8 kg. Wool from a smaller alpaca wighed 1.9 kg. Find the weight of wool from both alpacas.

My Work Space

Read the facts and write the ratio.

Llamas and alpacas are both useful animals to the Bolivian people. The larger llama stands 122 cm tall at the shoulder. It can carry loads along narrow mountain trails. The smaller alpaca may be only 118 cm tall at the shoulder. It has long, soft hair that the Bolivians shear and make into warm wool blankets.

18. Height of llama to height of alpaca ______

Round to the nearest whole number.

19. a. 64.7 _____ **b.** 58.5 _____ **c.** 3.5 _____

d. 65.2 _____

Complete the graph on page iv.

 \triangle **20.** Add a title to your graph.

Complete this function chart.

21.

gallons	1	6		3		11	10
quarts	4		16		48		

— Mental Math

23. a. 2,000 × 400 = _____ **b.** 90 × 600 = ____ **c.** 715.9 × 10 = _____

Follow the instructions for the number 85,200,425.

24. Write the digit in the ten millions place. _____

25. Write the digit in the tens place. _____

26. Write the digit in the ten thousands place. _____

27. Write the digit in the hundred thousands place. ____

Large plastic balloons are sometimes used to lift lumber out of hard-to-reach forests. A single balloon can lift and carry up to 10 tons of lumber.

Write the number from this sentence.

28. In 1996, Bolivia produced four million, one hundred twenty thousand metric tons of sugarcane. _____

Round to the nearest hundred.

Underline the most sensible answer.

30. José weighed 3 grams, kilograms when he was born.



Simplify these expressions in the correct order.

31. a.
$$5 + 12 \div 6 \times 8 + 2$$
 b. $(4 + 6) \div 2 \times 7$ **c.** $49 \div 7 - 3 \times 2$

b.
$$(4 + 6) \div 2 \times 7$$

c.
$$49 \div 7 - 3 \times 2$$