



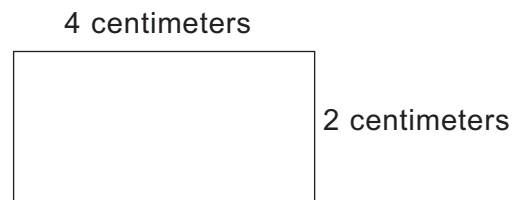
- ☐ Count by odd numbers from 1 to 11.
- ☐ Practice your J and $\times 5$ flash cards for 5 minutes.
- ☐ Do Speed Drill 11 on page 66.
- ☐ Record your score in the graph on page 60.



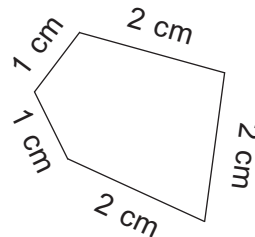
Finding the Perimeter

The distance around a polygon is called the perimeter. Find the perimeter by adding the lengths of all the sides.

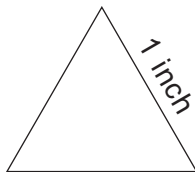
The perimeter of this rectangle is
 $4 + 2 + 4 + 2 = 12$ centimeters



The perimeter of this pentagon is
 $1 + 1 + 2 + 2 + 2 = 8$ centimeters

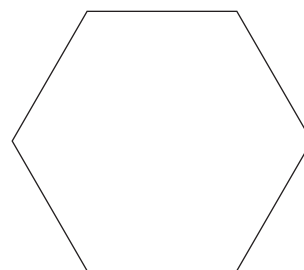


If all the sides of a polygon are equal,
 you can multiply to find the perimeter.



perimeter is $3 \times 1 = 3$ inches

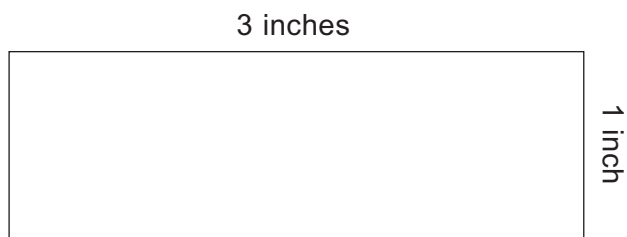
2 centimeters



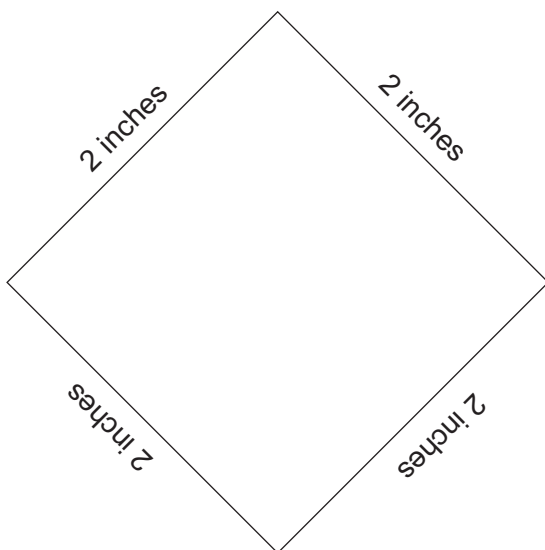
perimeter is $6 \times 2 = 12$ centimeters

Write number sentences and find the perimeter of each polygon.

1.



2.

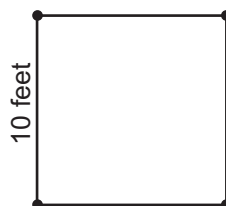




A puppy needs twice
as much food as an
adult dog.



3. The dog kennel at the vet has sides that are 10 feet long. What is the perimeter of the kennel?



Solution

Lesson 11



Number Patterns

Numbers can be put into many patterns. To discover the pattern, study the first set of numbers. Then compare the second set with the first set to discover what is the same or different about the two sets.

Study this pattern.

1 2 3 2 3 4 3 4 5 4 5 6 5 6 7

One is always added to each number in each set. Each set always starts with the second number in the set before it.

Discover and finish the patterns.

4. 13 15 17 15 17 19 17 19 21 _____

5. 4 8 12 16 20
 24 28 32 36 40

Did you discover 2 patterns in this one?



We Remember

Solve.

$$\begin{array}{r} 6. \quad 795 \\ + 379 \\ \hline \end{array}$$

$$\begin{array}{r} 727 \\ + 89 \\ \hline \end{array}$$

$$\begin{array}{r} \$2.61 \\ - .72 \\ \hline \end{array}$$

$$\begin{array}{r} 723 \\ - 598 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 9 \\ 4 \\ + 1 \\ \hline \end{array}$$

Complete the multiplication table.

	×	5	9	6	4	1	10	2	7	3	8
7.	5										
8.	2										

Write number sentences.

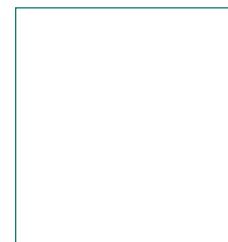
9. Two hundred sixty-nine is greater than zero. _____

10. Eight plus seven is not equal to thirteen. _____



11. Randall's mother rabbit, called a doe, has eight baby rabbits called kits. Laura's doe has eleven kits. How many kits are in the two families?

Solution



$+$ joining

$-$ taking away
finding more or less



Mental Math . . . ?

12. $41 + 4 =$ _____

$87 + 2 =$ _____

$62 + 4 =$ _____

13. $91 + 3 =$ _____

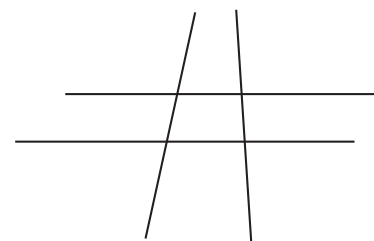
$72 + 7 =$ _____

$51 + 8 =$ _____

With a red crayon, trace the parallel lines.

Write the correct word in the blank.

14. The colored lines are _____ .
(horizontal, vertical)



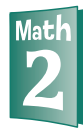
Fact Focus

15.	$\begin{array}{r} 5 \\ \times \square \\ \hline 25 \end{array}$	$\begin{array}{r} \square \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline \square \end{array}$	$\begin{array}{r} 5 \\ \times \square \\ \hline 40 \end{array}$	$\begin{array}{r} \square \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline \square \end{array}$	$\begin{array}{r} 5 \\ \times \square \\ \hline 0 \end{array}$	$\begin{array}{r} \square \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline \square \end{array}$
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12



- ☐ Count forward and backward by 3's to 36.
- ☐ Practice your K and $\times 5$ flash cards for 5 minutes.
- ☐ Do Speed Drill 12 on page 66.
- ☐ Record your score in the graph on page 60.



How is a solid different from a shape? We can measure a shape two ways.
A shape has two dimensions (də•men•shənz).

How long is it?

How wide is it?

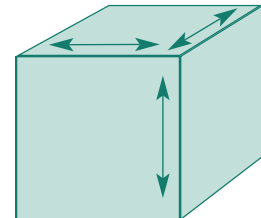


We can measure a solid three ways. A solid has three dimensions.

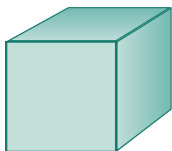
How long is it?

How wide is it?

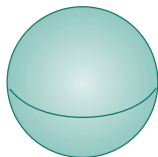
How high is it?



Here are pictures of five common solids.



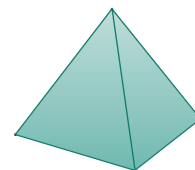
cube



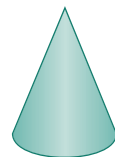
sphere



cylinder



pyramid



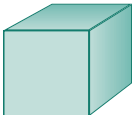
cone

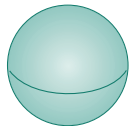
Name the solids suggested by each object.

1. sugar cube _____
2. paint can _____
3. point of a pencil _____
4. orange _____
5. tent _____

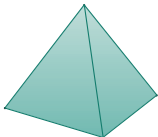
Full-grown cats come in many sizes. A cat named Tinker Toy was only $7\frac{1}{2}$ inches long. Another cat named Himmy was 38 inches long. Himmy was more than 5 times as long as Tinker Toy.

Circle the shapes you see in each solid.

6.  circle triangle square

7.  circle rectangle square

8.  circle square triangle

9.  circle triangle hexagon

10.  square rectangle circle

Lesson 12

Drawing Rays

A ray begins at a point and continues endlessly in one direction.

To draw a ray, make a point at the end of the ruler. Draw the line as long as you want it. Put an arrow on the other end.

**Draw a ray starting at point E and continuing through point F.
Put an arrow on the end past point F.**

11. E F



We Remember

Underline the phrase that tells you to find more or less. Solve the problem.



12. A grown dog has forty-two teeth. A cat has thirty teeth.
How many more teeth does a dog have than a cat?

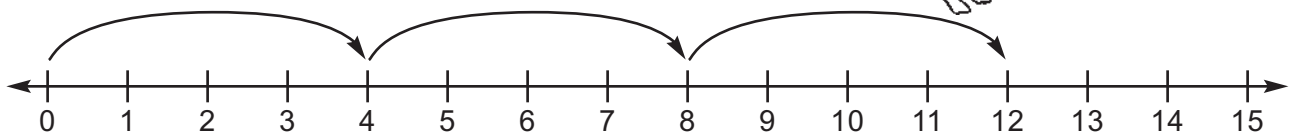
☐ + joining

☐ - taking away
finding more or less

Solution

Write the correct multiplication sentence.

13. 3 hops of 4 = ? _____



Mental Math . . . ?

14. $60 - 10 = \underline{\hspace{2cm}}$ $70 + 10 = \underline{\hspace{2cm}}$ $90 - 60 = \underline{\hspace{2cm}}$

Use your reference chart to find the answers.

15. $\underline{\hspace{2cm}}$ weeks = 1 year

16. $\underline{\hspace{2cm}}$ millimeters = 1 centimeter

Solve.

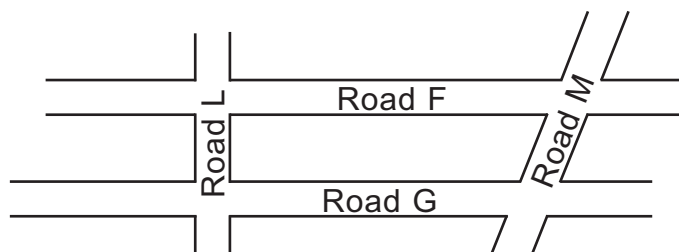
17.

$\begin{array}{r} \$8.39 \\ + .91 \\ \hline \end{array}$	$\begin{array}{r} 423 \\ + 56 \\ \hline \end{array}$	$\begin{array}{r} 493 \\ + 295 \\ \hline \end{array}$	$\begin{array}{r} \$7.61 \\ + 2.36 \\ \hline \end{array}$	$\begin{array}{r} 832 \\ 8 \\ + 82 \\ \hline \end{array}$
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Answer the question.

18. Which two roads are parallel?

$\underline{\hspace{2cm}}$ and $\underline{\hspace{2cm}}$

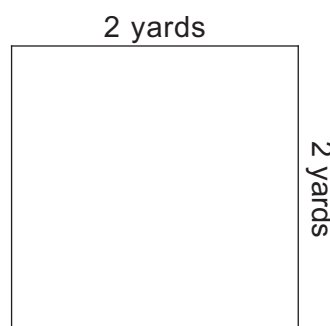
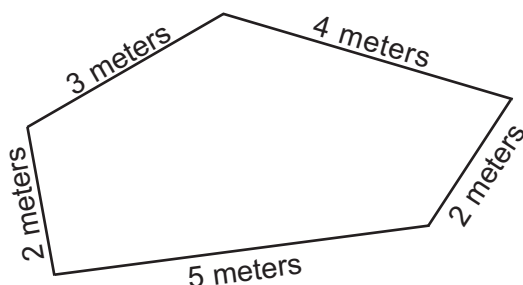


Write four more numbers for this pattern.

19. 0, 1, 0, 3, 0, 5, 0, 7, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$

Write number sentences and find the perimeter.

20.



$\underline{\hspace{10cm}}$ $\underline{\hspace{10cm}}$

Fact Focus

21. $8 \times 5 = \underline{\quad}$ $5 \times 4 = \underline{\quad}$ $6 \times 5 = \underline{\quad}$ $9 \times 5 = \underline{\quad}$ $1 \times 0 = \underline{\quad}$

13



- ☐ Count forward and backward by 4's to 48.
- ☐ Practice your L and $\times 2$ flash cards for 5 minutes.
- ☐ Do Speed Drill 13 on page 67.
- ☐ Record your score in the graph on page 60.

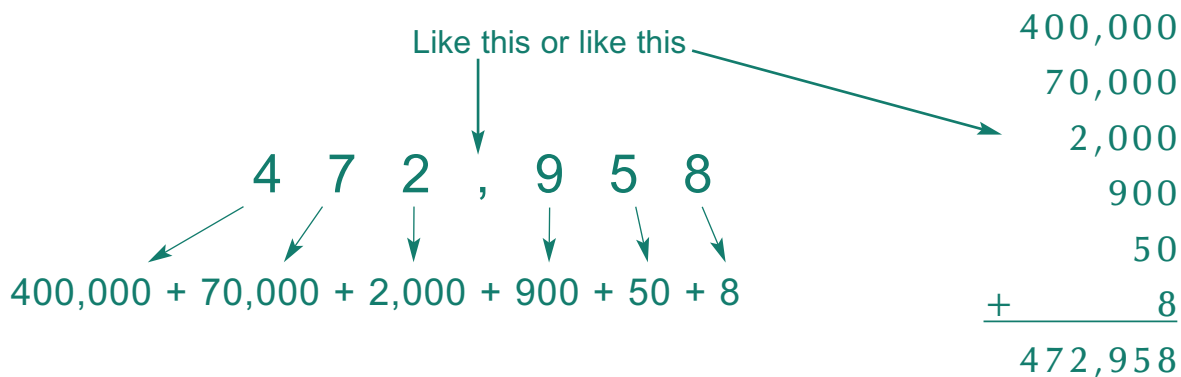
Hundred Thousands

The number 472,958 has six digits. The value of each digit depends on its place in the number. The table below shows the names of the six places.

hundred thousands	ten thousands	thousands	hundreds	tens	ones
4	7	2 ,	9	5	8

four hundred seventy-two **thousand** nine hundred fifty-eight

We can show the value of each digit by expanding the number.



Show the place value for each number.

1. 409,371

2. 16,452

3. 895,114

hundred thousands	ten thou- sands	thousands	hundreds	tens	ones

Expand the numbers. The first one is partly done for you.

546,283

4. $500,000 + 40,000 + \quad + \quad + \quad$

971,194

5. _____

725,817

6. _____



We Remember

Measure the rectangle in centimeters. Write a number sentence and find the perimeter.

7. height _____ cm

8. length _____ cm

9. perimeter _____ cm



Discover the pattern and complete it.

10. 1, 2, 3 11, 12, 13 21, 22, 23 31, _____, _____ _____, _____, _____

Lesson 13

Solve.

11.	$\begin{array}{r} \$8.41 \\ -2.56 \\ \hline \end{array}$	$\begin{array}{r} 166 \\ +498 \\ \hline \end{array}$	$\begin{array}{r} \$7.32 \\ +.43 \\ \hline \end{array}$	$\begin{array}{r} 92 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 468 \\ -195 \\ \hline \end{array}$
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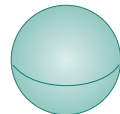
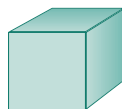
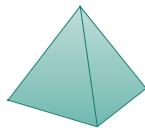
Answer both sides. Write $<$, $>$, or $=$.

12.	$3 + 6$ $18 - 9$	$11 - 3$ $4 + 4$	5×9 $80 - 40$

— **Mental Math . . . ?** _____

13. $30 + 5 =$ _____ $93 + 4 =$ _____ $66 + 3 =$ _____

Name the solids.



14. _____



15. Six little pigs, ten goslings, and twelve ducklings live close together at the Petting Zoo. How many animals may children visit in that part of the Petting Zoo?

joining

taking away
finding more or less

Set up the problem

Use your ruler to do the following.

Draw a ray. Start at point M. Go through point N.
Draw an arrow to show it is a ray.

16. M N

Draw a line segment to connect points O and P.

17. O P

18. Draw a line that is parallel to line MN.

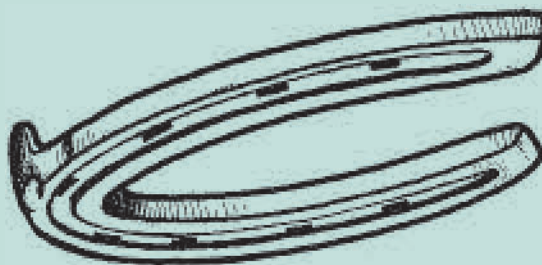


Fill in the blanks.

19. 1 gallon = _____ quarts
20. 1 dozen = _____ things
21. 1 foot = _____ inches

A pet horse usually has metal shoes placed on the bottom of his feet. One horseshoe weighs about 8 ounces. That's half a pound.

How much weight might a horse carry on its feet?



Fact Focus

22. $\begin{array}{r} 5 \\ \times \square \\ \hline 40 \end{array}$ $\begin{array}{r} \square \\ \times 5 \\ \hline 10 \end{array}$ $\begin{array}{r} 9 \\ \times 5 \\ \hline \square \end{array}$ $\begin{array}{r} 5 \\ \times \square \\ \hline 15 \end{array}$ $\begin{array}{r} \square \\ \times 5 \\ \hline 35 \end{array}$ $\begin{array}{r} 5 \\ \times 5 \\ \hline \square \end{array}$ $\begin{array}{r} 6 \\ \times \square \\ \hline 30 \end{array}$ $\begin{array}{r} \square \\ \times 5 \\ \hline 20 \end{array}$ $\begin{array}{r} 1 \\ \times 5 \\ \hline \square \end{array}$