

Measuring Length

Two Measurement Systems

Different countries use different measures. People in the United States measure length with inches, feet, yards, and miles. These are U.S. measures. Other countries measure length with millimeters, centimeters, meters, and kilometers. The meter is part of the metric system. You will learn U.S. measures and metric measures.

A measurement is a **number** followed by a **unit**.



A **unit of length** always has the same length. A centimeter is a unit of length, because a centimeter always measures the same length. A foot is a unit of length, because a foot always measures the same length.



In the U.S. system of measurement, there are four commonly used units of length. They are inch, foot, yard, and mile.

1 inch (in)

about the width of two fingers

1 foot (ft)

about the length of a man's foot

1 yard (yd)

about the length of a tall man's stride

1 mile (mi)

about the length of nine city blocks

In the metric system of measurement, there are four commonly used units of length. They are millimeter, centimeter, meter, and kilometer.

1 millimeter (mm)

about the thickness of a dime

1 centimeter (cm)

about the width of your little finger

1 meter (m)

about the length of a tall man's stride

1 kilometer (km)

about the length of five city blocks

1 cm = 10 mm 1 m = 100 cm 1 m = 1,000 mm 1 km = 1,000 m

Choose a U.S. unit of length for measuring the following items.

1.	length of a telephone	in	yd	mi
2.	length of a baby's shoe	in	ft	yd
3.	length of a river	in	yd	mi
4.	height of a pill bottle	yd	in	ft
5.	width of a small drawer	yd	mi	ft

Lesson 12

Choose a metric unit of length for measuring the following items.

6. width of your eye

- cm m
- 7. distance from 1st Avenue to Main Street
- mm cm

8. width of a needle's eye

mm cm m

km

m

9. depth of the ocean

mm cm km

10. height of a building

mm cm m



Find the sums and differences.

481

- **11.** 389 + 471
- 6 4 5 + 3 4 4
- 977 -289
- 78 -24
- 279 192 +253



Lori Ladybug will eat 210 aphids a week. She still has another 120 aphids to eat. How many has Lori already eaten?



joining

taking away

finding more or less finding the missing part



Solution

Match.

13. numerator •

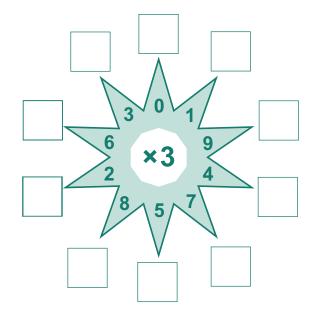
• top number in a fraction

14. denominator •

• bottom number in a fraction

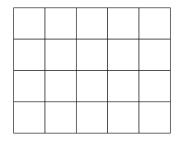
Write the products.

15.



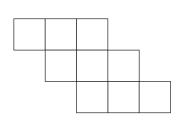
Find the area.

16.



squares

17.



____ squares

Show the place value for each number.

18. 4,697

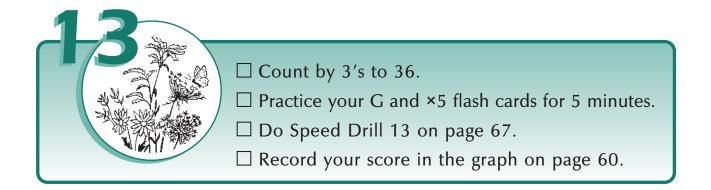
19.	738,	205
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hundred thousands	ten	thousands	hundreds	tens	ones
triousarius	เทอนรสทนร	เทอนรสทนร	Huridieds	teris	Ones

 \triangle Read the numbers above to someone.

— Fact Focus —

5



Count by Six

Counting by 6 is saying or writing every sixth number. It will help you learn to multiply by six.

When you count by 6, the numbers in the ones place will always be even numbers.

Fill in the missing numbers on this counting chart. The numbers you fill in are counting by 6.

 \triangle Count aloud by 6's to 60.

A large-winged butterfly beats its wings 4 times per second. A housefly's wings beat 200 times per second. And the tiny midge fly beats its wings 1,000 times per second.



Find the sums or differences.

763

God has given the beautiful green luna moth 168 hours to live. Mother luna moth has another 59 hours to finish laying her eggs. How old is she now?

+	joining

	taking away
_	finding more or less
	finding the missing part

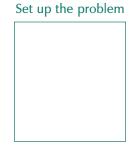


Set up the problems and solve.





426 + 5715.



Use your reference chart.

6. Write the multiples of 8.

Circle the best answer.

7. How long would it take you to clap your hands one time?

1 second

1 minute

8. How long would it take you to write 6 words?

1 second

1 minute

Lesson 13

Write the multiples of 9.

9.

Underline the item you would measure with centimeters (cm).

10. the width of a small calculator the length of a door the height of the ceiling

Underline the item you would measure with yards (yd).

11. the height of a mug the width of your classroom your shoe

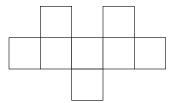
Use your ruler to draw a ray. Start at point J. Go through point K.

14. J

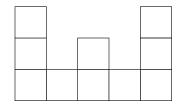


Find the area.

12. _____ squares



13. _____ squares



Circle the sphere. Put a box around the cube. Put an X on the pyramid. Put a dot under the cone. Put a smiley face under the cylinder.

15.









Write number sentences. Solve.

16. The difference between twelve and eight

17. Fifty and forty put together

Fill in the blanks.

18. 1 meter = ____ centimeters

19. 1 gallon = ____ quarts

20. 1 pint = ____ cups

21. 1 hour = ____ minutes

Answer each side. Then write <, >, or =.

$$7+0$$
? 7×0

Match.

23. denominator •

22.

- 24. numerator •
- the number of shaded parts
- the number of equal parts all \together

— Mental Math . .? ——

— Fact Focus —