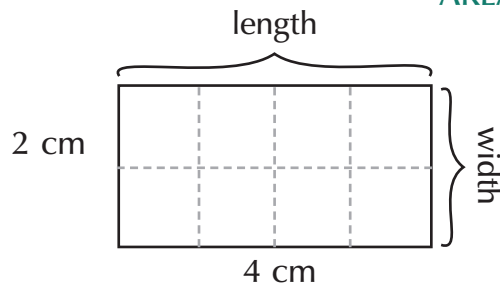


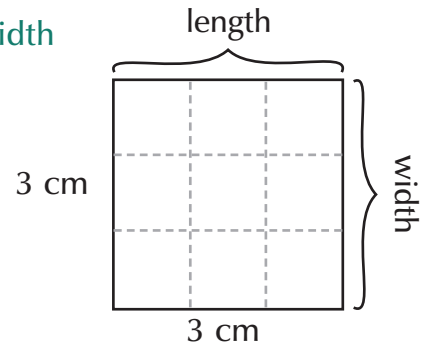
Area of Squares and Rectangles

To find the area of a square or rectangle, multiply the length by the width.

$$\text{AREA} = \text{length} \times \text{width}$$



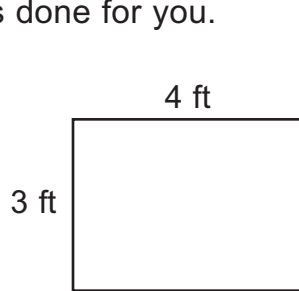
$$\text{Area} = 4 \text{ cm} \times 2 \text{ cm} = 8 \text{ cm}^2$$



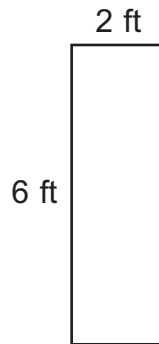
$$\text{Area} = 3 \text{ cm} \times 3 \text{ cm} = 9 \text{ cm}^2$$

Write a multiplication sentence for each picture. Give the area in square feet (ft^2).

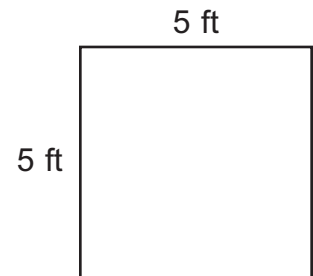
One is done for you.



1. a. $4 \times 3 = 12 \text{ ft}^2$



b. _____



c. _____

Write a multiplication sentence and give the area in square yards.

length, 7 yards
width, 6 yards

2. _____

length, 10 yards
width, 10 yards

b. _____

length, 8 yards
width, 2 yards

c. _____



Looking for Addends That Equal 10

We can add addends in any order as long as we don't skip any. It may be easier to add long columns of numbers if we can find sets of addends that equal 10 and add them first.

$9 + 1 = 10$, $6 + 2 + 2 = 10$
 Two tens equal 20
 5 is left. $20 + 5 = 25$

$$\begin{array}{r}
 \cancel{9} \\
 5 \\
 \cancel{1} \\
 \hline
 10
 \end{array}$$

$$\begin{array}{r}
 \cancel{6} \\
 \cancel{2} \\
 +2 \\
 \hline
 10
 \end{array}$$

Add. Watch for addends that equal 10.

$$\begin{array}{r}
 59 \\
 64 \\
 31 \\
 11 \\
 3. \text{ a. } +20 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2 \\
 3 \\
 5 \\
 1 \\
 \text{b. } +6 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 97 \\
 32 \\
 14 \\
 76 \\
 \text{c. } +48 \\
 \hline
 \end{array}$$

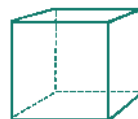
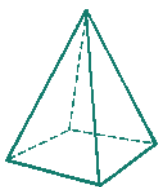
$$\begin{array}{r}
 12 \\
 68 \\
 44 \\
 31 \\
 \text{d. } +55 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5 \\
 7 \\
 5 \\
 4 \\
 3 \\
 \text{e. } +5 \\
 \hline
 \end{array}$$



We Remember

Write the name of each solid.



4. a. _____ b. _____ c. _____ d. _____ e. _____

Round to the nearest 100 to estimate.

5. a. estimate $459 - 325$

b. estimate $781 + 123$

c. estimate $987 - 321$

_____ - _____ = _____ _____ + _____ = _____ _____ - _____ = _____

Lesson 4

6. Rachel spends 90 minutes a day talking to her teacher and the 8 other students in her class over the two-way radio on the School of the Air. Rachel works on school studies 5 days a week. How many minutes does she spend talking with her teacher each week?



My Work Space

7. If Rachel spent $\frac{4}{6}$ of an hour doing math, and another $\frac{3}{6}$ of an hour studying geography, how much more time did she spend doing math than geography?

My Work Space

Write the number. Watch for zeros.

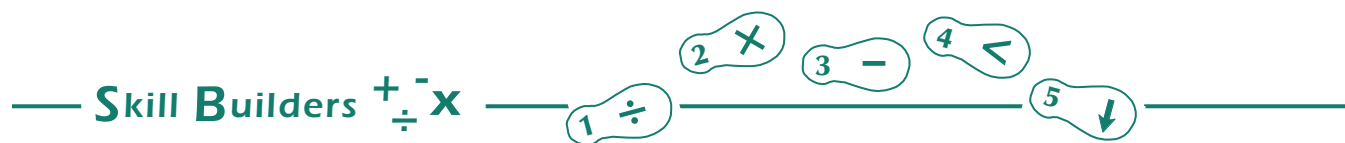
8. Forty-two million, seventy-eight thousand, three hundred twenty-one

Circle the numbers that have 3 as a factor.
Underline those that also have 9 as a factor.

9. 297 142 90 378 504 57

Circle the numbers that have 2 as a factor.
Underline the numbers that have 5 as a factor.
Put an X on the numbers that have 10 as a factor.

10. 20 45 72 120 145 86



11. a. $\begin{array}{r} 49 \\ \times 70 \\ \hline \end{array}$ b. $\begin{array}{r} 37 \\ \times 20 \\ \hline \end{array}$ c. $\begin{array}{r} 21 \\ \times 40 \\ \hline \end{array}$ d. $\begin{array}{r} 1,083 \\ - 99 \\ \hline \end{array}$ e. $\begin{array}{r} \text{Check} \\ 9,301 \\ - 2,841 \\ \hline \hline \end{array}$ f. $\begin{array}{r} 49 \\ \times 8 \\ \hline \end{array}$

12. a. $\begin{array}{r} \text{Check} \\ \hline 38 \\ 46 \\ 52 \\ 74 \\ + 19 \\ \hline \end{array}$ b. $\begin{array}{r} 63 \\ \times 24 \\ \hline \end{array}$ c. $\begin{array}{r} \text{Check} \\ 3 \overline{)52} \end{array}$

Copy the division problems in the division boxes. Divide.

13. a. $24 \div 7 = \underline{\hspace{2cm}}$ b. $32 \div 5 = \underline{\hspace{2cm}}$ c. $69 \div 3 = \underline{\hspace{2cm}}$

Measure to the nearest centimeter.

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

Circle the best estimate.

15. A pair of boots 2 g 2 kg 200 kg
16. A turkey 5 g 5 kg 500 kg

— Mental Math . . . ? —

17. a. $632,000 \div 100 = \underline{\hspace{2cm}}$ b. $20 \times 1,000 = \underline{\hspace{2cm}}$ c. $6,000 \div 1,000 = \underline{\hspace{2cm}}$

18. a. $2,100 \div 10 = \underline{\hspace{2cm}}$ b. $72 \times 10 = \underline{\hspace{2cm}}$ c. $356 \times 100 = \underline{\hspace{2cm}}$

Write the numbers.

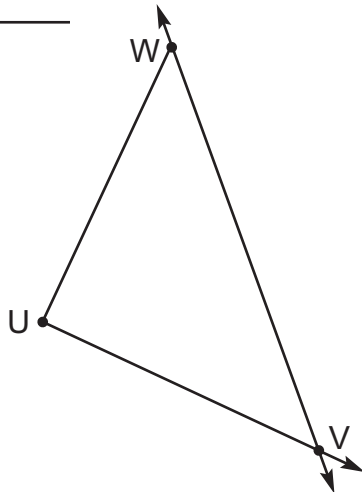
19. is a factor of any even number.

20. is a factor of any number that ends in 0.

21. is a factor of any number that ends in 5 or 0.

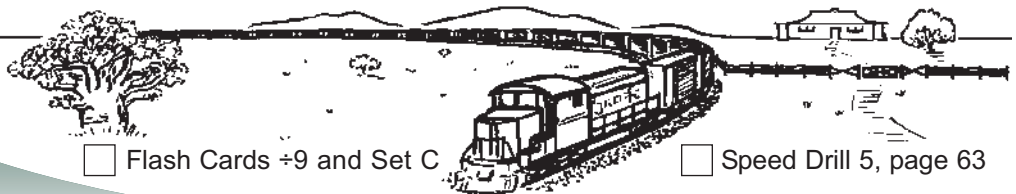
Name the triangle.

22.



Benjamin Banneker was a free African American who lived in the 1700s. With only four years of grammar school, Benjamin taught himself astronomy and how to survey land. He learned so much math that he was able to carve a working clock out of wood, write an almanac, and help survey the land upon which the capital city of Washington, D.C. was built.

5

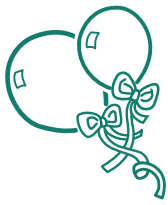


☐ Flash Cards $\div 9$ and Set C

☐ Speed Drill 5, page 63



Tell your teacher when you are ready for Quiz 1.



Just for Fun

Interesting Timepieces

What tool do we use to measure time? A clock or a watch.

But this is not the only way.

Here are some interesting ways to measure time.

Hourglass



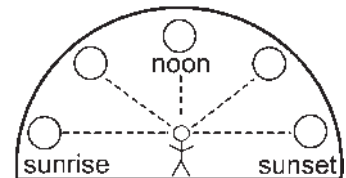
Sand falls into the bottom at the same speed every time you flip the glass.

Sundial



The sun casts its shadow at nearly the same place on the dial at the same time every day.

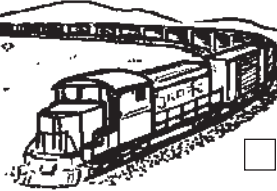
Sun's Position



The sun is at nearly the same place in the sky at the same time every day.

Read 2 Kings 20:1-11. Answer the question.

1. What timepiece did God use to give a sign that Hezekiah would be healed?



Use Digit Sums to Check Multiplication

Follow the steps to check multiplication using digit sums.

Step 1

Find the digit sum of each factor. Circle each digit sum to help you keep track of it. (8 and 8)

$$\begin{array}{r}
 134 \text{ (8)} \\
 \times 8 \text{ (8)} \\
 \hline
 1,072 \\
 12,060 \\
 \hline
 13,132
 \end{array}$$

Arrows point from the circled 8s to the boxed 1s.

Step 2

Multiply the digit sums of the factors ($8 \times 8 = 64$). Find the digit sum of the answer. ($6 + 4 = 10$; $1 + 0 = 1$) The digit sum is 1.

Step 3

Find the digit sum of the product. ($1 + 3 + 1 + 3 + 2 = 10$; $1 + 0 = 1$)

Step 4

Compare digit sums from Step 2 and Step 3 ($1 = 1$).

If the digit sums are the same, your answer is probably right. If they are different, either your answer is wrong or you did not check correctly.

Find the products. Check by comparing digit sums.

1. a.
$$\begin{array}{r}
 37 \text{ ()} \\
 \times 15 \text{ ()} \\
 \hline
 \end{array}$$

b.
$$\begin{array}{r}
 52 \text{ ()} \\
 \times 48 \text{ ()} \\
 \hline
 \end{array}$$

c.
$$\begin{array}{r}
 61 \text{ ()} \\
 \times 73 \text{ ()} \\
 \hline
 \end{array}$$

△ Ask your teacher to dictate numbers for you to write.

2. a. _____

b. _____

c. _____

3. a. _____

b. _____

c. _____



We Remember

Write the number for the point marked by the arrow for each scale.



4. a. _____



b. _____

Write these numbers on the blanks. Write zeros in the empty places.

5. Twelve million, five hundred eight

_____, _____, _____

6. Twenty-two million

_____, _____, _____

7. Seven hundred million,
one hundred twenty-four thousand

_____, _____, _____

8. Alice Springs usually gets about 6 inches of rain a year. But one day in January 1986, Whim Creek received 5 times that much rain all in one day! How much rain did Whim Creek receive that January day?

My Work Space

9. In Australia's vast, dry grasslands, jumbuck stations are very large. The station owned by Jason and Rachel's dad is 50 kilometers long and 35 kilometers wide. What is the area of this station?

Remember: $\text{Area} = \text{length} \times \text{width}$

My Work Space

Lesson 6

Skill Builders $+$ $-$ $\times$ $\div$



Check

$$\begin{array}{r} 419 \\ \hline \end{array}$$

Check

$$5,009$$

10. a. $\begin{array}{r} 327 \\ + 71 \\ \hline \end{array}$

b. $\begin{array}{r} 5,009 \\ - 280 \\ \hline \end{array}$

c. $\begin{array}{r} 27 \\ \times 40 \\ \hline \end{array}$

d. $\begin{array}{r} 6 \\ 1 \\ 5 \\ 7 \\ 3 \\ + 4 \\ \hline \end{array}$

Look for addends that equal 10.

$$2.1$$

$$3.5$$

$$7.8$$

$$1.4$$

e. $\begin{array}{r} 456 \\ + 4.1 \\ \hline \end{array}$

f. $\begin{array}{r} 456 \\ \times 3 \\ \hline \end{array}$

11. a. $\begin{array}{r} 7 \\ 16 \\ + 9 \\ \hline 16 \end{array}$

b. $\begin{array}{r} 76 \\ \times 32 \\ \hline \end{array}$

Check

c. $2 \overline{)93}$

Check

Count by 12's to 144.

12. _____

Write the numbers.

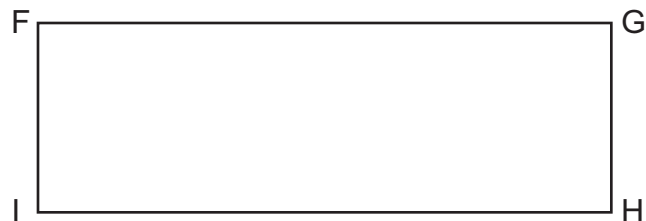
13. _____ is a factor of any number with a digit sum of 3, 6, or 9.

14. _____ is a factor of any number with a digit sum of 9.

Measure the sides of the rectangle in inches.

15. $\overline{FG}$ is _____ inch(es)

16. $\overline{GH}$ is _____ inch(es)



17. Write an addition sentence and find the perimeter. _____ = _____

18. Write a multiplication sentence and find the area. _____ = _____

Name the parts of a division problem.

19. 63 is the _____.

20. 21 is the _____.

$$3 \overline{) 63}$$

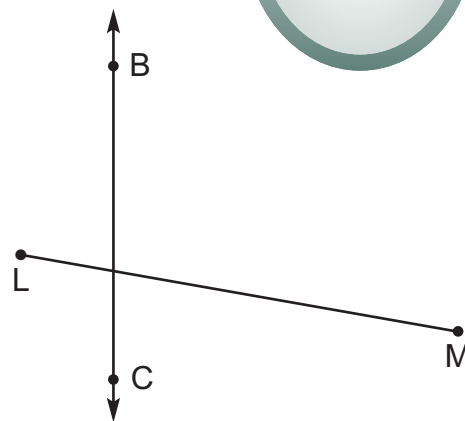
21. 3 is the _____.

Swans
have
25,000
feathers.

Follow the directions.

22. Name the line. _____

23. Name the line segment. _____



Change these mixed numbers to improper fractions.

24. a. $2\frac{4}{7} =$ _____

b. $5\frac{1}{6} =$ _____

c. $7\frac{2}{3} =$ _____

d. $5\frac{1}{9} =$ _____

Match by writing the decimals beside the words.

9.36

63.9

52.07

25.70

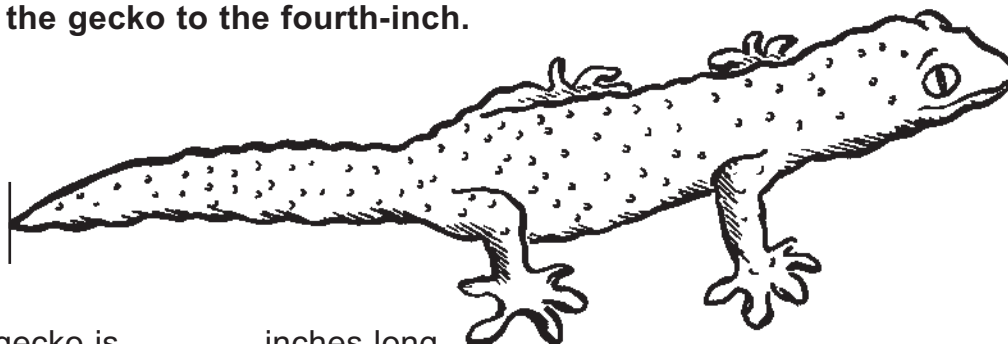
25. _____ nine and thirty-six hundredths

26. _____ twenty-five and seventy-hundredths

27. _____ fifty-two and seven-hundredths

28. _____ sixty-three and nine-tenths

Measure the gecko to the fourth-inch.



29. The gecko is _____ inches long.