

12



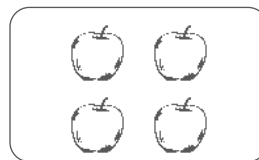
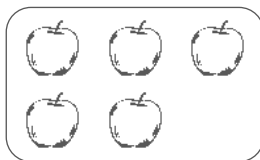
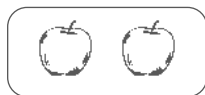
- ☐ Count by 100's to 1,000.
- ☐ Practice your M and $\times 5$ flash cards for 5 minutes.
- ☐ Do Speed Drill 12 on page 64.
- ☐ Record your score in the graph on page 58.

Write what your teacher says.

△ 1. \$.92 69,005 \$23.87 $6 \times 5 \neq 35$

Add or Multiply?

We add to join **unequal** groups.

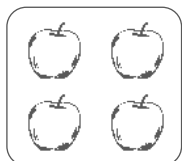


Write the addition sentence.

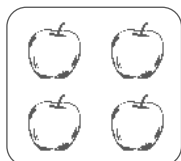
$$\underline{2 + 5 + 4 = 11 \text{ apples}}$$

We multiply to join **equal** groups.

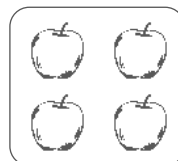
4 apples



4 apples



4 apples



3 equal groups – multiply

Write the multiplication sentence.

$$\underline{3 \times 4 = 12 \text{ apples}}$$

Follow these steps to decide whether to add or multiply.

STEP 1 Read the problem.

Mother's basket has 4 green peppers, 4 yellow peppers, and 4 red peppers. How many peppers are in the basket?

STEP 2 Choose *joining* or *joining equal groups*.

☐ joining

☒ joining equal groups

STEP 3 Set up the problem and solve.

Solution

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

STEP 4 Write the answer and the label.

12 peppers



2. The Baker family invited the neighbors over for a cookout. "Jolene," Mother said, "I need some things from the grocery store." They bought a package of ground beef for \$8.34, a bottle of ketchup for 99¢, and lemonade drink mix that cost \$2.49.

How much was Mother's bill?

Solution

$$\begin{array}{r} ^1 ^2 \\ \$8.34 \\ ^1 ^2 \\ + .99 \\ + 2.49 \\ \hline \$11.82 \end{array}$$

☒ joining

☐ joining equal groups

\$11.82



3. Joe was helping Father make hamburger patties for grilling. They had 5 pounds of hamburger and made 4 patties out of each pound.

How many patties did they make?

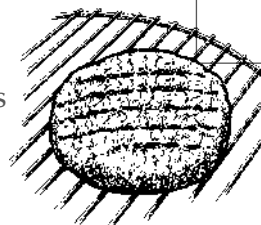
Solution

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

☐ joining

☒ joining equal groups

20 patties



Lesson 12



We Remember

Write the multiples of 6.

4. 6 12 18 24 30 36 42 48 54 60

Solve. Check the last one.

5.	$\begin{array}{r} 39 \\ 400 \\ -291 \\ \hline 109 \end{array}$	$\begin{array}{r} 7 \\ 806 \\ -484 \\ \hline 322 \end{array}$	$\begin{array}{r} 810 \\ 811 \\ -173 \\ \hline 738 \end{array}$	$\begin{array}{r} 865 \\ +979 \\ \hline 1,844 \end{array}$	$\begin{array}{r} 1190 \\ 472 \\ 45 \\ +673 \\ \hline 1,190 \end{array}$
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Circle the correct number. Watch for placeholders.


6. eighty-four thousand, four hundred ninety
 84,40090 84,490 804,490

Joe's uncle gave him 10¢ on his birthday. Every day for a week after Joe's birthday, his uncle doubled the amount. Follow the pattern to find out how much money Joe's uncle gave him each day.

Double each amount. Write three more numbers.

☆ 7. \$.10 \$.20 \$.40 \$.80 \$1.60 \$3.20 \$6.40

Measure the line segment.

8.  3 $\frac{1}{4}$ in

Count by fourths.

9. $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 1 $\frac{1}{4}$ 1 $\frac{1}{2}$ 1 $\frac{3}{4}$ 2

Compare the fractions. Write $<$ or $>$. Use the pictures to help you.

10. $\frac{1}{2} > \frac{1}{9}$



11. $\frac{2}{7} < \frac{2}{3}$



12. $\frac{1}{4} > \frac{1}{6}$

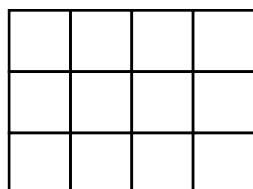


13. $\frac{5}{7} > \frac{5}{8}$



Find the area.

14. 12 squares



Write the numbers. Remember to put the commas in the right place.

15. one hundred twenty-eight thousand, six hundred four 128,604

16. one hundred ninety-eight thousand 198,000

17. six hundred nine thousand, five 609,005

Expand the numbers.

18. $297,453 =$
 $200,000 + 90,000 + 7,000 + 400 + 50 + 3$

19. $628,311 =$
 $600,000 + 20,000 + 8,000 + 300 + 10 + 1$

Fact Focus

20. $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$ $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$ $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$ $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$ $\begin{array}{r} 4 \\ \times 0 \\ \hline 0 \end{array}$ $\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$ $\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$ $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$ $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$ $\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$

21. $0 \times 9 = \underline{0}$ $5 \times 2 = \underline{10}$ $2 \times 8 = \underline{16}$ $3 \times 9 = \underline{27}$ $2 \times 7 = \underline{14}$

22. $3 \times 4 = \underline{12}$ $10 \times 4 = \underline{40}$ $3 \times 6 = \underline{18}$ $2 \times 0 = \underline{0}$ $3 \times 7 = \underline{21}$

13



- ☐ Count forward and backward by 5's to 60.
- ☐ Practice your $\times 10$ and $\times 4$ flash cards for 5 minutes.
- ☐ Do Speed Drill 13 on page 65.
- ☐ Record your score in the graph on page 58.

△ **Recite the *Multiply 4* table to your teacher.**

Meters and Millimeters

You know that millimeters and centimeters are used for small measurements. Meters are used to measure larger things. There are 1,000 millimeters in 1 meter.

Use millimeters to measure very tiny things, like the length of an apple seed, the width of a pencil point, or the thickness of a coin.



Use meters to measure the width of your classroom, the length of a table, or the height of a window.

Meter Measurements

100 centimeters = 1 meter
1,000 millimeters = 1 meter

Abbreviations

centimeter – cm
millimeter – mm
meter – m

Circle the unit of measure you would use.

1. to measure the length of the chalkboard
meter millimeter
2. to measure the length of the driveway
meter millimeter
3. to measure the length of a buttonhole
meter **millimeter**

One pound of raw hamburger makes about $2\frac{1}{2}$ cups of cooked meat.



Fill in the blanks.

4. 100 centimeters = 1 meter

5. 1,000 millimeters = 1 meter



We Remember



6. While the hamburgers were grilling, Jolene made the lemonade. She put 3 tablespoons of mix in each of the 8 glasses of water. How many tablespoons of lemonade mix did Jolene use?

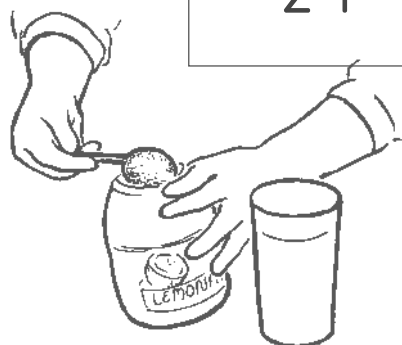
☐ + joining

☒ joining equal groups

24 tablespoons

Solution

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$



7. Father lit the charcoal and had to wait 15 minutes before he could begin grilling. He spent another 18 minutes grilling the burgers. How much time did it take to fix the hamburgers?

☒ joining

☐ joining equal groups

33 minutes

Solution




$$\begin{array}{r} | 5 \\ + | 8 \\ \hline 33 \end{array}$$

Fill in the blank.

8. If the hamburgers were 9 centimeters wide, they were 90 millimeters wide.

Lesson 13

Measure each line segment with centimeters.

9.  6 cm
10.  11 cm
11.  2 cm

Write the multiples of 9.

12. 9 18 27 36 45 54 63 72 81 90

Write the *Multiply 4* table. The order of the facts and the factors may vary.

13. $\begin{array}{l} 1 \times 4 = 4 \\ 2 \times 4 = 8 \\ 3 \times 4 = 12 \\ 4 \times 4 = 16 \end{array}$ $\begin{array}{l} 5 \times 4 = 20 \\ 6 \times 4 = 24 \\ 7 \times 4 = 28 \end{array}$ $\begin{array}{l} 8 \times 4 = 32 \\ 9 \times 4 = 36 \\ 10 \times 4 = 40 \end{array}$

Solve. Check the third problem.

14. $\begin{array}{r} 426 \\ + 283 \\ \hline 709 \end{array}$ $\begin{array}{r} 653 \\ - 221 \\ \hline 432 \end{array}$ $\begin{array}{r} 1,423 \\ \hline \hline \begin{array}{r} 1\ 2 \\ 838 \\ 559 \\ + 26 \\ \hline 1,423 \end{array} \end{array}$ $\begin{array}{r} \$4.\overset{0}{1}3 \\ - 1.04 \\ \hline \$3.09 \end{array}$ $\begin{array}{r} 2\overset{1}{4} \\ - 8 \\ \hline 16 \end{array}$

Order the fractions from smallest to largest. $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{5}$ $\frac{1}{9}$ $\frac{1}{4}$

15. $\frac{1}{9}$ $\frac{1}{6}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{2}$

Start from the point. Draw a line segment 4 inches long.

16. 

Set up the problems. Find the sums and differences.

17. $\$3.06 - .68$

Set up the problem

$$\begin{array}{r} 29 | \\ \$3.06 \\ - .68 \\ \hline \$2.38 \end{array}$$

18. $\$2.67 + .20 + .36$

Set up the problem

$$\begin{array}{r} | | \\ \$2.67 \\ .20 \\ + .36 \\ \hline \$3.23 \end{array}$$

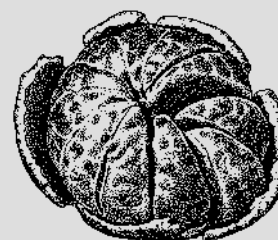
Most people need about 60 milligrams of vitamin C every day to stay healthy.

You can get this much vitamin C by eating $\frac{3}{4}$ cup of broccoli, one orange, or 2 cups of tomato juice.

Write the tens that come before and after. Circle the nearest ten.

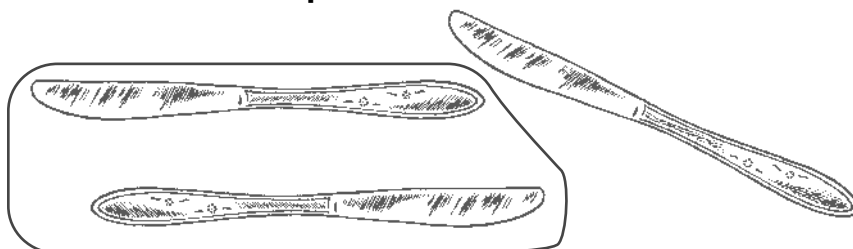
19. 70 75 (80)

20. 40 46 (50)



Circle the knives that are parallel to each other.

21.



Measure the length of the knives. Fill in the blanks.

22. The knives are 60 millimeters long or 6 centimeters long.

Fact Focus

23. $\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$ $\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$ $\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$ $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$ $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$ $\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$ $\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$ $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$ $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$ $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$

24. $10 \times 5 = \underline{50}$ $5 \times 2 = \underline{10}$ $0 \times 10 = \underline{0}$ $3 \times 3 = \underline{9}$ $5 \times 4 = \underline{20}$

25. $5 \times 3 = \underline{15}$ $2 \times 9 = \underline{18}$ $3 \times 8 = \underline{24}$ $3 \times 7 = \underline{21}$ $2 \times 1 = \underline{2}$