

3



- Count by 7's to 70.
- Practice the L and $\times 6$ flash cards for 5 minutes.
- Do Speed Drill 3 on page 62.
- Record your score in the graph on page 60.

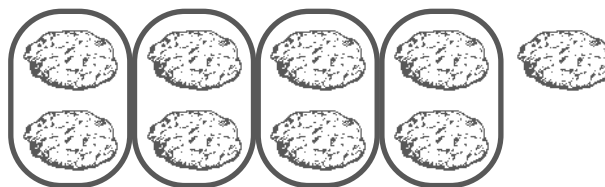
Division With a Remainder

Sometimes when we divide into equal groups, there are some left over.

If we divide 9 cookies into groups of 2 we have 1 left over.

1. How many groups of cookies do we have? 4 groups

2. How many cookies are left over? 1 cookie



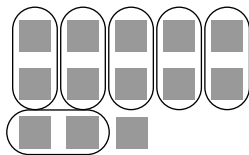
When we divide, the part that is left over is called the *remainder*. We write the division problem like this:

$$\begin{array}{r}
 4 \text{ r } 1 \\
 2 \overline{)9}
 \end{array}$$

← number of groups and how many left over
 ← number of cookies in each group
 ← number of cookies all together

Draw circles to divide into equal groups. Write the division problem with the remainder. The first one shows you how. Circles may vary.

3. groups of 2



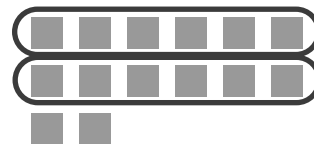
$$\begin{array}{r}
 6 \text{ r } 1 \\
 2 \overline{)13}
 \end{array}$$

groups of 4



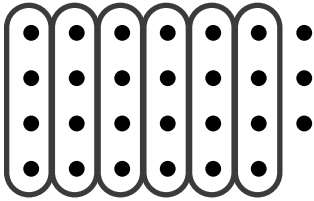
$$\begin{array}{r}
 1 \text{ r } 3 \\
 4 \overline{)7}
 \end{array}$$

groups of 6



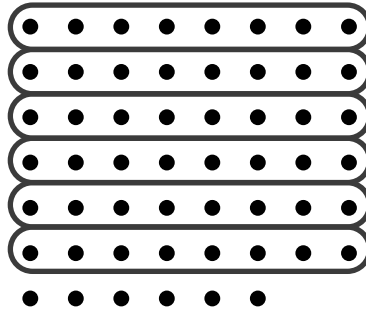
$$\begin{array}{r}
 2 \text{ r } 2 \\
 6 \overline{)14}
 \end{array}$$

4. groups of 4



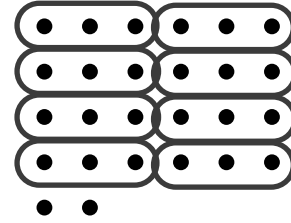
$$\begin{array}{r} 6 \text{ r } 3 \\ 4 \overline{) 27} \end{array}$$

groups of 8



$$\begin{array}{r} 6 \text{ r } 6 \\ 8 \overline{) 54} \end{array}$$

groups of 3



$$\begin{array}{r} 8 \text{ r } 2 \\ 3 \overline{) 26} \end{array}$$



We Remember

Write the sums or differences. Check the last 3 problems.

$$\begin{array}{r} 5,363 \\ + 419 \\ \hline 5,782 \end{array}$$

$$\begin{array}{r} 26 \\ + 47 \\ \hline 73 \end{array}$$

$$\begin{array}{r} 69 \\ \cancel{70}8 \\ - 259 \\ \hline 449 \\ \hline 708 \end{array}$$

$$\begin{array}{r} 59 \\ \cancel{2,60}1 \\ - 394 \\ \hline 2,207 \\ \hline 2,601 \end{array}$$

$$\begin{array}{r} 69 \\ \cancel{97,0}51 \\ - 36,380 \\ \hline 60,671 \\ \hline 97,051 \end{array}$$

Solve.

$$\begin{array}{r} 1.2 \\ + 1.7 \\ \hline 2.9 \end{array}$$

$$\begin{array}{r} 9.3 \\ + 11.4 \\ \hline 20.7 \end{array}$$

$$\begin{array}{r} 1.7 \\ + 0.9 \\ \hline 2.6 \end{array}$$

$$\begin{array}{r} 5 \\ 97 \\ \times 8 \\ \hline 776 \end{array}$$

$$\begin{array}{r} 2 \\ 74 \\ \times 7 \\ \hline 518 \end{array}$$

Fill in the blank.

7. There are 1,000 meters in a kilometer.

Underline what you would measure with kilometers.

8. the distance to your uncle's place in another state
the distance from your house to the road

Lesson 3



9. Aunt Martha opened 3 cans of pork and beans to heat on the camp stove for supper. It made 30 ounces of beans altogether. How many ounces did each can hold?

10 ounces

Solution

$$\begin{array}{r} 10 \\ 3 \overline{)30} \end{array}$$



10. Dad bought a pack of 4 rolls of film. He could take 24 pictures with each roll. How many pictures could he take all together?

96 pictures



Solution

$$\begin{array}{r} 24 \\ \times 4 \\ \hline 96 \end{array}$$

Round to the nearest 100 to estimate each answer. Then find the exact answer.

11.

$$\begin{array}{r} 5 \text{ } 13 \\ \cancel{6} \cancel{4} 2 \\ - 193 \\ \hline 449 \end{array}$$

Estimate

$$\begin{array}{r} 600 \\ - 200 \\ \hline 400 \end{array}$$

$$\begin{array}{r} 784 \\ + 175 \\ \hline 959 \end{array}$$

Estimate

$$\begin{array}{r} 800 \\ + 200 \\ \hline 1,000 \end{array}$$

Add or subtract. When the fraction equals 1, rewrite the sum as 1.

12. $\frac{5}{8} - \frac{2}{8} = \underline{\frac{3}{8}}$ $\frac{3}{4} + \frac{1}{4} = \underline{\frac{4}{4} = 1}$ $\frac{10}{20} - \frac{7}{20} = \underline{\frac{3}{20}}$

Round to the nearest dollar.

13. \$8.69 \$9.00 \$12.50 \$13.00 \$4.19 \$4.00

Measure to the nearest inch or centimeter.

14. 6 centimeters 

15. 2 inches 

Write the quotients.

16. $4 \div 4 = \underline{1}$ $24 \div 24 = \underline{1}$ $6 \div 6 = \underline{1}$ $7 \div 1 = \underline{7}$ $26 \div 1 = \underline{26}$

17. $20 \div 5 = \underline{4}$ $45 \div 5 = \underline{9}$ $15 \div 5 = \underline{3}$ $50 \div 5 = \underline{10}$ $35 \div 5 = \underline{7}$

18. $20 \div 2 = \underline{10}$ $16 \div 2 = \underline{8}$ $10 \div 2 = \underline{5}$ $18 \div 2 = \underline{9}$ $12 \div 2 = \underline{6}$

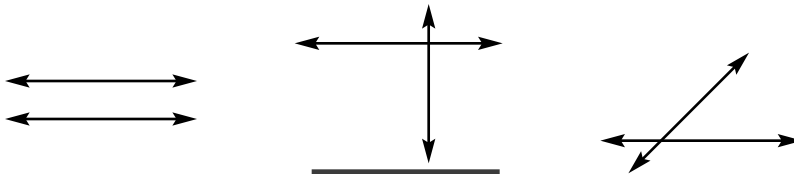
Round two-digit numbers to the nearest ten.

Round three-digit numbers to the nearest hundred.

19. 45 50 465 500 325 300 76 80

Underline the pair of perpendicular lines.

20.



Fact Focus

21. $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$ $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$ $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$ $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$ $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$ $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$ $72 \div 8 = \underline{9}$ $40 \div 8 = \underline{5}$
 $0 \div 8 = \underline{0}$ $64 \div 8 = \underline{8}$

22. $7 \overline{)42}$ $7 \overline{)63}$ $7 \overline{)56}$ $7 \overline{)28}$ $24 \div 8 = \underline{3}$ $80 \div 8 = \underline{10}$
 $48 \div 8 = \underline{6}$ $16 \div 8 = \underline{2}$

4



- Count by 6's to 60.
- Practice the M and $\times 7$ flash cards for 5 minutes.
- Do Speed Drill 4 on page 62.
- Record your score in the graph on page 60.

Read to your teacher.

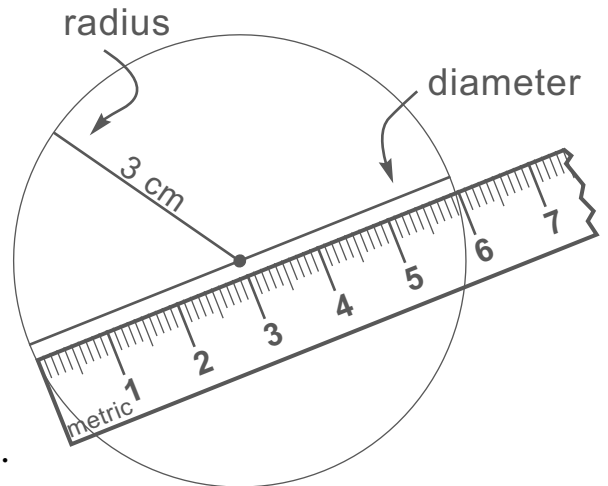
\triangle $24 \div 8 = 3$ $\frac{1}{3}$ of $18 \neq 4$ 6.3 $4 \times 3 > 2$ $n + 3 = 9$ $401,503$

Radius and Diameter

The distance from the outside of a circle to its center is called the radius (rā•dē•əs).

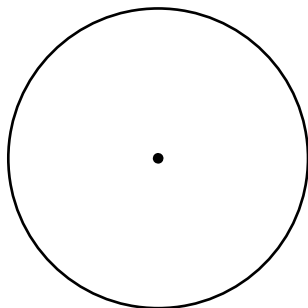
The distance across a circle through the center is called the diameter (dī•am•ə•tər).

The diameter of a circle is 2 times as long as the radius. When the radius of a circle is 3 cm, you can find the diameter by doubling 3.



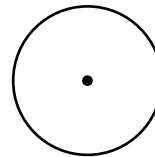
Use a centimeter ruler to measure the radius and the diameter of each circle.

1.



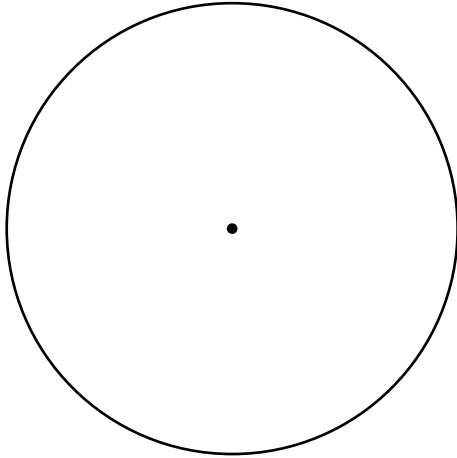
radius 2 cm
diameter 4 cm

2.



radius 1 cm
diameter 2 cm

3.



radius 3 cm
 diameter 6 cm

4. If a circle has a radius of 4 inches,
 what is the diameter?

8 in

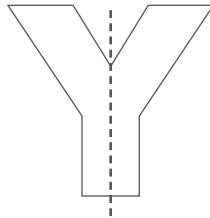


We Remember

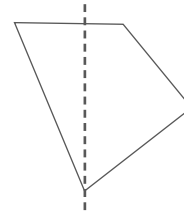
Write *yes* if the shape is symmetric. Write *no* if it is not.



5. yes



yes



no

Write the sums or differences.

$$\begin{array}{r} 623 \\ +194 \\ \hline 817 \end{array}$$

$$\begin{array}{r} 5,682 \\ +2,243 \\ \hline 7,925 \end{array}$$

$$\begin{array}{r} 2,081 \\ -1,273 \\ \hline 818 \end{array}$$

$$\begin{array}{r} 2,084 \\ -18,193 \\ \hline 14,791 \end{array}$$

$$\begin{array}{r} 415 \\ -562 \\ \hline 65 \end{array}$$

Add or subtract. When the fraction equals 1, rewrite the sum as 1.

$$7. \frac{3}{8} + \frac{4}{8} = \underline{\frac{7}{8}}$$

$$\frac{6}{7} - \frac{1}{7} = \underline{\frac{5}{7}}$$

$$\frac{9}{16} + \frac{7}{16} = \underline{\frac{16}{16} = 1}$$

Lesson 4

8. Mother had packed a total of 18 blankets and sleeping bags into the van for camping at night. When these are shared among the 9 Yoders, how many covers does each person get?

2 covers

Solution

$$\begin{array}{r} 2 \\ 9 \overline{)18} \end{array}$$

9. Robert watched Old Faithful shoot hot water high into the air at 10:15 in the morning. He wanted to see it again, so Jonathan waited with him. The geyser erupted again at 11:05. How many minutes passed between the two eruptions?



50 minutes



10. The temperature of the air at noon in the park was 75 degrees. "Look," said Sharon. "This sign says the water in this hot spring is 116 degrees. Feel how warm it is!" How much warmer was the spring water than the air?

41 degrees

Solution

$$\begin{array}{r} 0 | \\ \times 16 \\ - 75 \\ \hline 41 \end{array}$$

11. The Yoder family was amazed at the beautiful waterfalls in Yellowstone Park. "This sign says that Lower Falls is nearly two times as high as Niagara!" said Jonathan. "Niagara Falls is about 160 feet high," said Dad. About how high is Lower Falls in the Yellowstone Park?

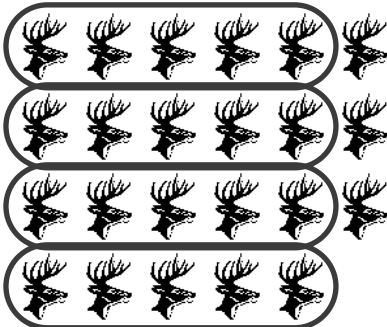
320 feet

Solution

$$\begin{array}{r} | \\ 160 \\ \times 2 \\ \hline 320 \end{array}$$

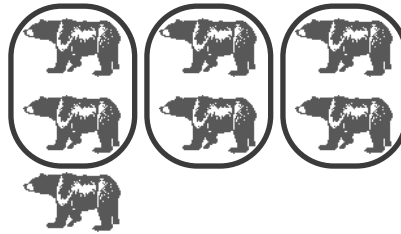
Draw circles to divide into equal groups. Write the division sentence with the remainder. See how the first one is done. Circles may vary.

12. groups of 5



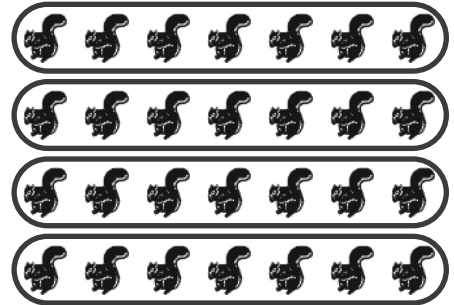
$$\underline{23 \div 5 = 4 \text{ r} 3}$$

groups of 2



$$\underline{7 \div 2 = 3 \text{ r} 1}$$

groups of 7



$$\underline{30 \div 7 = 4 \text{ r} 2}$$

Solve.

$$\begin{array}{r} | \\ 13. \quad 3.9 \\ + 6.4 \\ \hline 10.3 \end{array}$$

$$\begin{array}{r} 6.1 \\ + 9.7 \\ \hline 15.8 \end{array}$$

$$\begin{array}{r} 4.5 \\ + 6.2 \\ \hline 10.7 \end{array}$$

$$\begin{array}{r} 36 \\ 849 \\ \times 7 \\ \hline 5,943 \end{array}$$

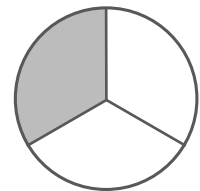
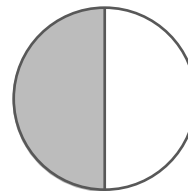
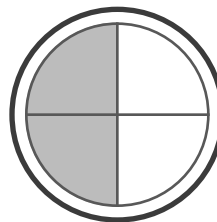
$$\begin{array}{r} | | \\ 732 \\ \times 6 \\ \hline 4,392 \end{array}$$

$$\begin{array}{r} | \\ 651 \\ \times 3 \\ \hline 1,953 \end{array}$$

Do the exercises about the circles.

14. How many fourths are shaded?

2



15. Circle the shape that is divided into quarters.

Fact Focus

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array} \quad \begin{array}{r} \boxed{8} \\ \times 6 \\ \hline 48 \end{array} \quad \begin{array}{r} 6 \\ \times 6 \\ \hline \boxed{36} \end{array} \quad \begin{array}{r} 6 \\ \times \boxed{5} \\ \hline 30 \end{array} \quad \begin{array}{r} \boxed{7} \\ \times 6 \\ \hline 42 \end{array}$$

$$48 \div 8 = \underline{6} \quad 24 \div 8 = \underline{3}$$

$$16 \div 8 = \underline{2} \quad 56 \div 8 = \underline{7}$$

$$40 \div 8 = \underline{5} \quad 0 \div 8 = \underline{0}$$

$$\begin{array}{r} 8 \\ 7 \overline{)56} \end{array} \quad \begin{array}{r} 10 \\ 7 \overline{)70} \end{array} \quad \begin{array}{r} 9 \\ 7 \overline{)63} \end{array} \quad \begin{array}{r} 6 \\ 7 \overline{)42} \end{array}$$

$$72 \div 8 = \underline{9} \quad 16 \div 8 = \underline{2}$$

$$64 \div 8 = \underline{8} \quad 80 \div 8 = \underline{10}$$