

Lesson 54 Name \_\_\_\_\_ Date \_\_\_\_\_

Calculating perimeters; learning length abbreviations

The perimeter of any closed shape is the distance around it. The figures below have been drawn to scale. Compute their perimeters. Remember that the opposite sides of a rectangle are equal and that all four sides of a square are equal. Be sure to label your answers. Abbreviations: inch (in), feet (ft), yard (yd), centimeter (cm), meter (m), millimeter (mm) and kilometer (km).

① 
$$\begin{array}{r} 8 \\ 5 \\ \hline 26 \end{array}$$
 
$$\begin{array}{r} 8 \\ 5 \\ 8 \\ + 5 \\ \hline 26 \end{array}$$

② 
$$\begin{array}{r} 8 \\ 3 \\ \hline 22 \end{array}$$
 
$$\begin{array}{r} 8 \\ 3 \\ 8 \\ + 3 \\ \hline 22 \end{array}$$

③ 
$$\begin{array}{r} 7 \\ 7 \\ \hline 28 \end{array}$$
 
$$\begin{array}{r} 7 \\ 7 \\ 7 \\ + 7 \\ \hline 28 \end{array}$$

A formula is a way of writing a mathematical rule. Can you write the formula for computing the perimeter of a rectangle? 
$$\text{perimeter} = (2 \times L) + (2 \times W)$$

Can you write the formula for computing the perimeter of a square? 
$$\text{perimeter} = 4 \times L \text{ or } 4 \times W$$

④ 
$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$
 Each side is 9 cm. 
$$\begin{array}{r} 9 \\ 9 \\ 9 \\ 9 \\ + 9 \\ \hline 45 \end{array}$$

⑤ 
$$\begin{array}{r} 20 \\ 7 \\ \hline 54 \end{array}$$
 
$$\begin{array}{r} 20 \\ 7 \\ 20 \\ + 7 \\ \hline 54 \end{array}$$

⑥ 
$$\begin{array}{r} 8 \\ 3 \\ \hline 24 \end{array}$$
 Each side is 8 in. 
$$\begin{array}{r} 8 \\ 3 \\ 8 \\ + 3 \\ \hline 24 \end{array}$$

Measure and compute the perimeter of each shape to the nearest centimeter.

$$\begin{array}{r} 3 \\ 2 \\ 3 \\ + 2 \\ \hline 10 \end{array}$$
 
$$\begin{array}{r} 3 \\ 2 \\ 3 \\ + 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 1 \\ 3 \\ 4 \\ + 3 \\ \hline 11 \end{array}$$
 
$$\begin{array}{r} 1 \\ 3 \\ 4 \\ + 3 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 2 \\ 2 \\ 2 \\ + 2 \\ \hline 8 \end{array}$$
 
$$\begin{array}{r} 2 \\ 2 \\ 2 \\ + 2 \\ \hline 8 \end{array}$$

Homework

A 273,794

7 ten thousands, 9 ones, 2 hundred thousands and 5 hundreds 
$$\begin{array}{r} 270,509 \\ \hline 270,509 \\ 3,173 \\ + 112 \\ \hline 273,794 \end{array}$$

$$\begin{array}{r} 8,500 \\ - 5,327 \\ \hline 3,173 \end{array}$$
 ( 148, 139, 130, 121, 112 )

B 185

Circle the even numbers in the set. ( 11, 27, 62, 76 )

How many sixths are there in 3 wholes? 
$$\begin{array}{r} 3 \times 6 = 18 \\ \hline 18 \end{array}$$

4 x 7 = 28

50¢ = 1 half-dollars

C 101

Cal is 42 inches tall. Tad is 5 inches shorter than Cal. Drew is 8 inches taller than Tad. How tall is Drew?

$$\begin{array}{r} 42 \\ - 5 \\ \hline 37 \end{array}$$
 
$$\begin{array}{r} 37 \\ + 8 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 45 \\ 9 \overline{)45} \\ - 36 \\ \hline 9 \\ - 9 \\ \hline 0 \end{array}$$
 
$$\begin{array}{r} 66 \\ 6 \overline{)66} \\ - 66 \\ \hline 0 \end{array}$$

D 16

Thirty-five people want to go on a canoe trip. Each canoe will hold 4 people. How many canoes will be needed for the whole group to go?

$$\begin{array}{r} 8 \text{ r}3 \\ 4 \overline{)35} \\ - 32 \\ \hline 3 \end{array}$$
 9 canoes

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

AB and CD are   
 ⑦ diagonals.   
 8. parallel.   
 9. perpendicular.

Guided Practice 54 Name \_\_\_\_\_

A  $4\frac{7}{8}$  B 357 r3 C \$4.58

The sum of the angles in a triangle is 180°.

$$\begin{array}{r} 3\frac{2}{3} \\ - \frac{2}{3} \\ \hline 3 \end{array}$$
 
$$\begin{array}{r} 1\frac{8}{8} \\ - \frac{5}{8} \\ \hline 1\frac{3}{8} \end{array}$$
 
$$\begin{array}{r} 3\frac{7}{8} \\ - 3\frac{3}{8} \\ \hline \frac{4}{8} \end{array}$$
 
$$\begin{array}{r} 3 \\ + \frac{4}{8} \\ \hline 3\frac{4}{8} \end{array}$$

$$\begin{array}{r} 169 \\ 4 \overline{)676} \\ - 4 \\ \hline 27 \\ - 24 \\ \hline 36 \\ - 36 \\ \hline 0 \end{array}$$
 
$$\begin{array}{r} 180 \\ 4 \text{ r}3 \\ + 169 \\ \hline 357 \text{ r}3 \end{array}$$

$$\begin{array}{r} \$3.51 \\ 8 \overline{) \$28.08} \\ - 24 \\ \hline 40 \\ - 40 \\ \hline 08 \\ - 8 \\ \hline 0 \end{array}$$
 
$$\begin{array}{r} \$1.20 \\ 8 \overline{) \$12.00} \\ - 8 \\ \hline 40 \\ - 40 \\ \hline 0 \end{array}$$
 
$$\begin{array}{r} \$2.76 \\ 3 \overline{) \$27.60} \\ - 27 \\ \hline 06 \\ - 6 \\ \hline 0 \end{array}$$
 
$$\begin{array}{r} \$3.51 \\ + .15 \\ + .92 \\ \hline \$4.58 \end{array}$$

D 76 E 376

Which fact does not belong?  $40 \div 5 = 8$

6.  $12 \times 7 = 84$   $8$    
 7.  $84 \div 12 = 7$   $35$    
 ⑧.  $7 \times 7 = 49$   $8$    
 9.  $7 \times 12 = 84$   $21$

What is one fifth of 40? 8  $40 \div 5 = 8$

$$\frac{3}{4} \times 7 = \frac{21}{4}$$
 
$$\frac{1}{3} \times 4 = \frac{4}{3}$$

8 gallons 3 qt = 35 qt

This figure \_\_\_\_\_ have rotational symmetry.   
 6. does   
 ⑦. does not

Select the best choice to complete this pattern.   
 A C E G I K M O  $7$    
 ③⑤ O 36. P 37. N 38. L  $35$    
  $4$    
  $325$    
  $4,325 \text{ g} = \underline{4} \text{ kg } \underline{325} \text{ g}$   $376$    
 A pentagon has 5 vertices.

F 1,699 G 45

How has the figure moved?   
 5. reflection (flip)   
 6. translation (slide)   
 ⑦. rotation (turn)

$$\begin{array}{r} 1,681 \\ 4 \overline{) 6,724} \\ - 4 \\ \hline 27 \\ - 24 \\ \hline 32 \\ - 32 \\ \hline 04 \\ - 4 \\ \hline 0 \end{array}$$
 
$$\begin{array}{r} 7 \\ 8 \\ 3 \\ + 1,681 \\ \hline 1,699 \end{array}$$

99 balloons = 8 dozen 3 balloons

Kaya bought several hair clips. She received \$16.45 in change. What information is needed to know how much money she gave the clerk?   
 3. how many dimes she had   
 ④. cost for all the hair clips   
 5. the cost of each hair clip

What is the intersection of M and N?   
 M. (4, 8, 12, 16)  $4$    
 N. (3, 6, 9, 12)  $12$    
  $29$    
  $496$    
 How many days were in February in 1984? 
$$\begin{array}{r} 496 \\ 29 \overline{) 496} \\ - 29 \\ \hline 206 \\ - 206 \\ \hline 0 \end{array}$$
  $1984$