math Antics Worksheets

Name:

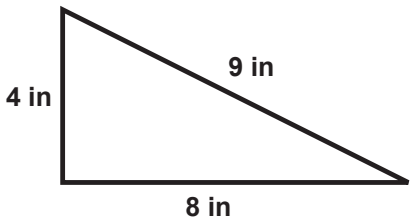
Date:

Finding the Perimeter of Triangles

G-PER 1

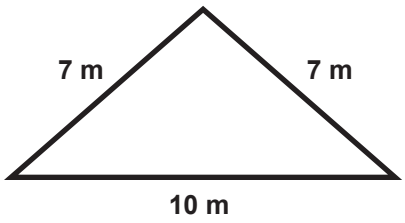
Instructions: Find the perimeter of each triangle by adding up the lengths of it's three sides. Don't forget your units!

1

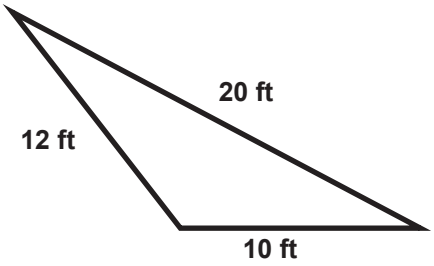


8 + 9 + 4 = 21 in

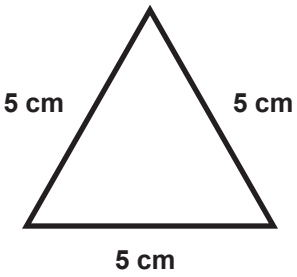
2



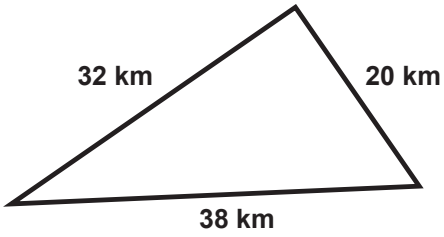
3



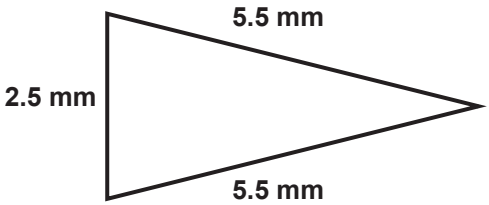
4



5



6



math Antics Worksheets

Name: _____

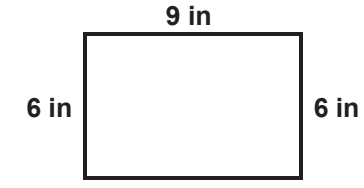
Date: _____

Finding the Perimeter of Rectangles

G-PER 2

Instructions: Find the perimeter of each rectangle by adding up the lengths of it's four sides. Remember that you can add the sides in any order you want to. Don't forget your units!

1

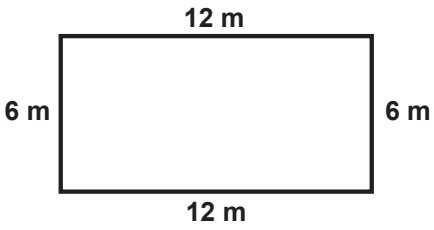


$9 + 9 = 18$

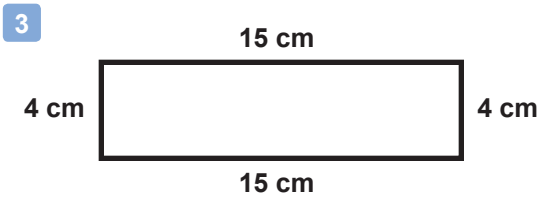
$6 + 6 = 12$

$$\begin{array}{r} {\scriptstyle 1} \\ 18 \\ +\ 12 \\ \hline 30 \text{ in} \end{array}$$

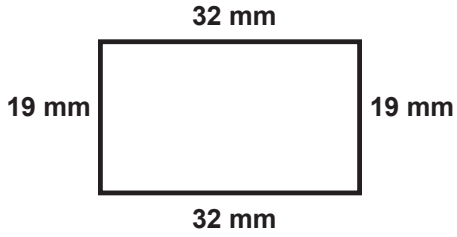
2



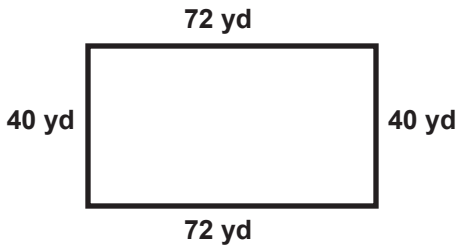
3



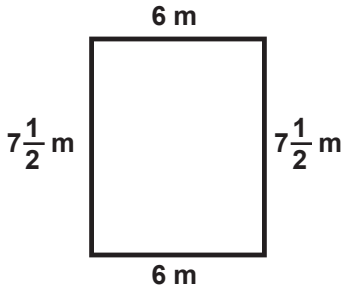
4



5



6



math Antics Worksheets

Name:

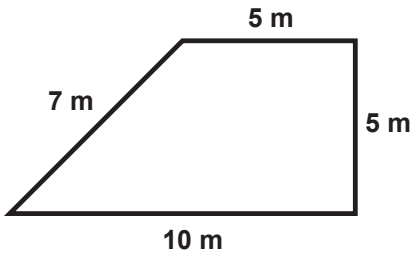
Date:

Finding the Perimeter of Polygons

G-PER 3

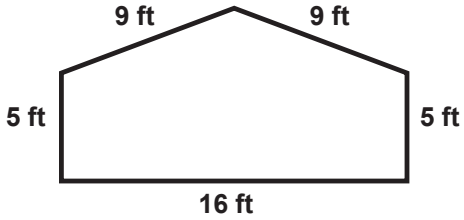
Instructions: Find the perimeter of each polygon by adding up the lengths of all of it's sides. You can add the sides in any order you want to. Don't forget your units!

1

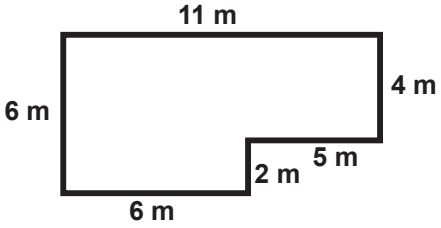


5 + 5 + 10 +7 = 27 m

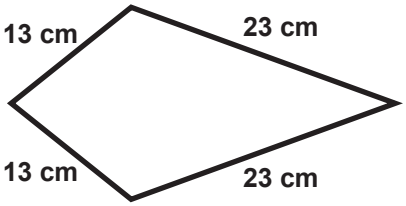
2



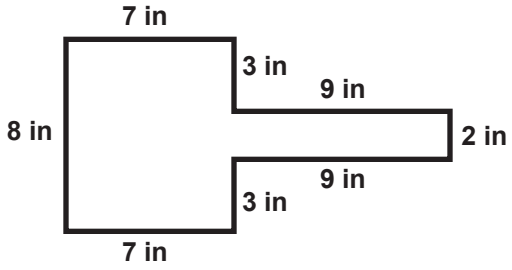
3



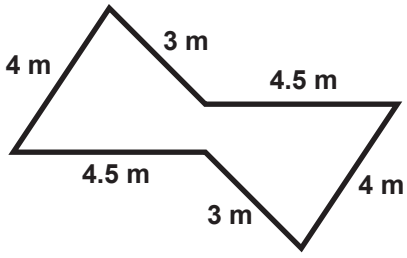
4



5



6



math Antics Worksheets

Name:

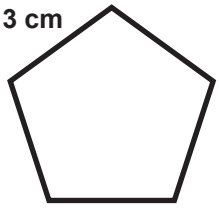
Date:

Finding the Perimeter of Regular Polygons

G-PER 4

Instructions: Find the perimeter of each **regular** polygon by adding up the lengths of all it's sides. Since these are regular polygons, use multiplication as a shortcut. Don't forget your units!

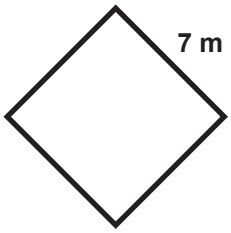
1



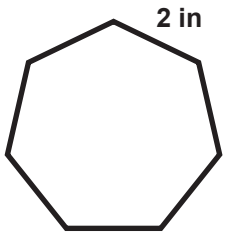
5 equal sides, 3 cm per side

5 × 3 = 15 cm

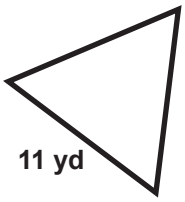
2



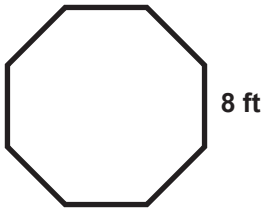
3



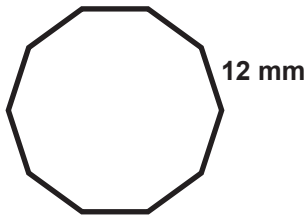
4



5



6



math Antics Worksheets

Name:

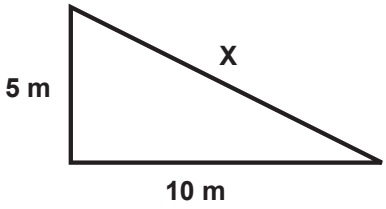
Date:

Using the Perimeter to Find a Missing Side

G-PER 5

Instructions: Use the perimeter of each polygon to figure out the length of the missing side (X). (Hint: Subtract the sum of the sides you *do* know from the total perimeter and see what is left over.)

1



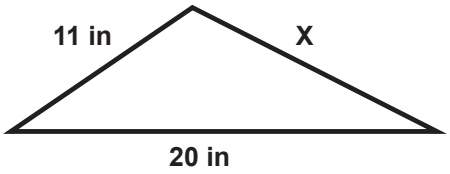
Perimeter = 26 m

X = 26 - (5 + 10)

X = 26 - 15

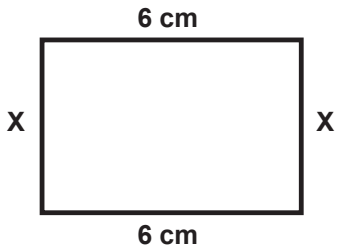
X = 11 m

2



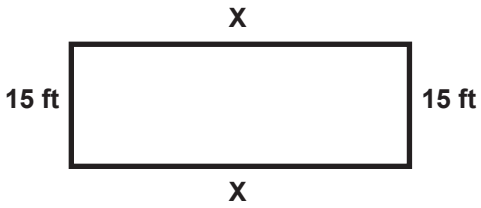
Perimeter = 44 in

3



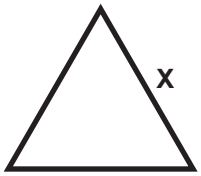
Perimeter = 20 cm

4



Perimeter = 114 ft

5 This equilateral triangle has a perimeter of 60 mm. What is the length of side X?



6 This regular pentagon has a perimeter of 25 km. What is the length of side X?

math Antics Worksheets

Name:

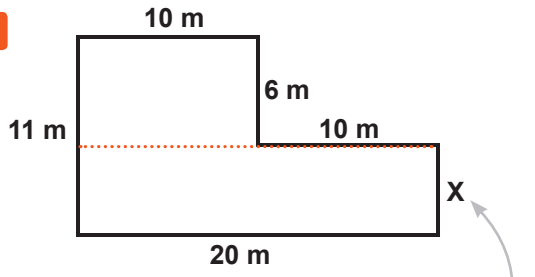
Date:

Perimeter : Missing Information Problems

G-PER 6

Instructions: Find the perimeter of each polygon. (Hint: Use what you *do* know to figure out what you *don't* know.) Remember that you can add up the sides in any order that is easiest for you.

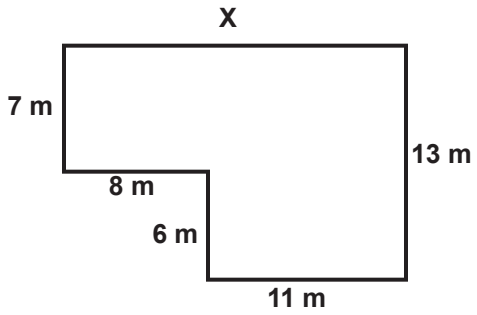
1



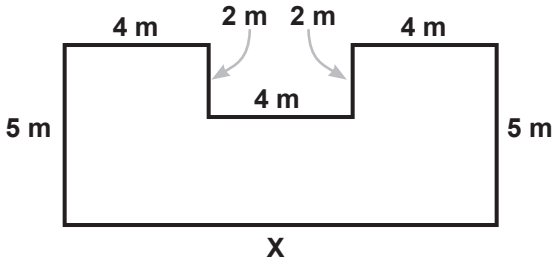
11 - 6 = 5 m

1
20
10
10
11
5
+ 6
62 m

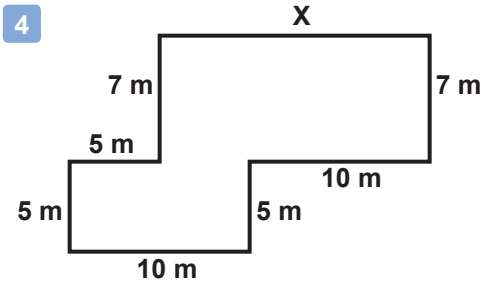
2



3



4



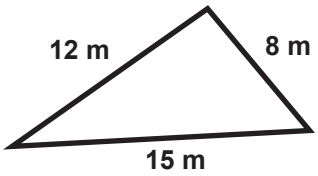
math Antics
Exercises

Name:

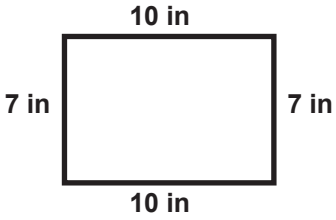
Date:

Perimeter

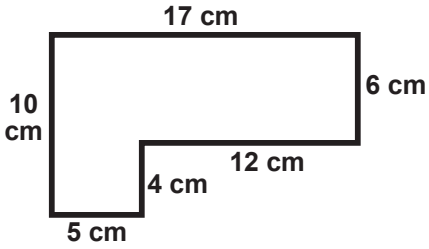
1 Find the perimeter of this triangle.



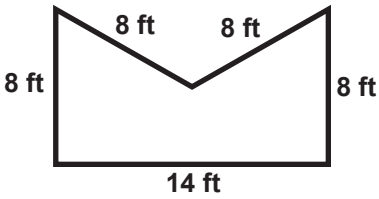
2 Find the perimeter of this rectangle.



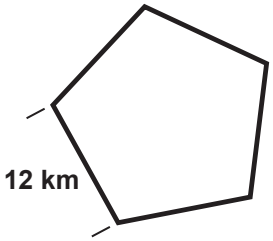
3 Find the perimeter of this polygon.



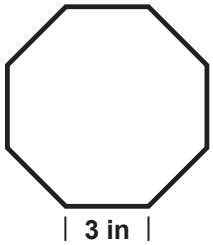
4 Find the perimeter of this polygon.



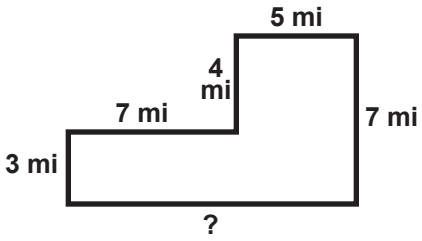
5 Find the perimeter of this **regular** pentagon.



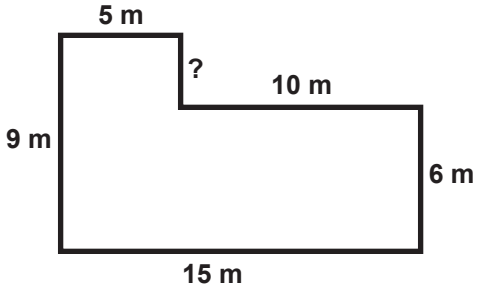
6 Find the perimeter of this **regular** octagon.



7 Find the perimeter. Use what you do know to find the side you don't know.



8 Find the perimeter.



math Antics Worksheets

Name:

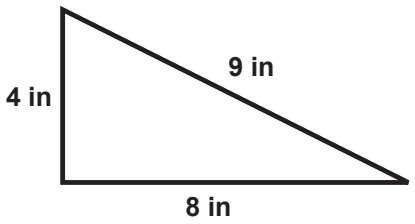
Date:

Finding the Perimeter of Triangles

G-PER 1

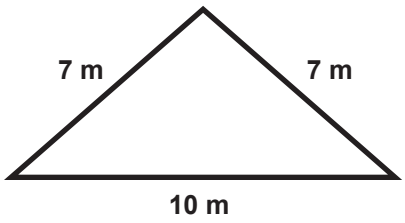
Instructions: Find the perimeter of each triangle by adding up the lengths of it's three sides. Don't forget your units!

1



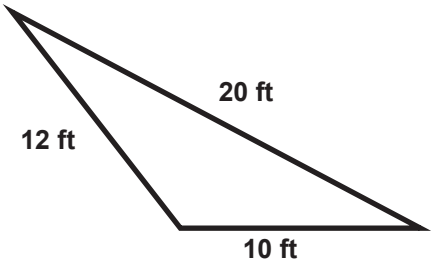
8 + 9 + 4 = 21 in

2



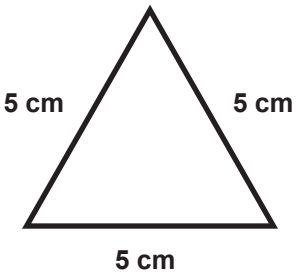
7 + 7 + 10 = 24 m

3



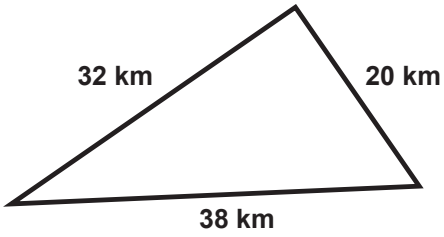
10 + 20 + 12 = 42 ft

4



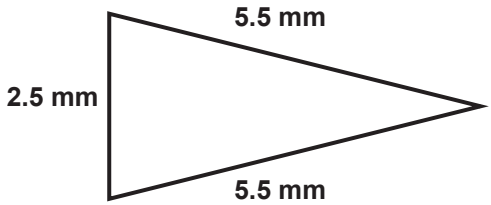
5 + 5 + 5 = 15 cm

5



$$\begin{array}{r} {\scriptstyle 1} \\ 38 \\ 32 \\ +\ 20 \\ \hline 90 \end{array}$$ 90 km

6



$$\begin{array}{r} {\scriptstyle 1} \\ 5.5 \\ 5.5 \\ +\ 2.5 \\ \hline 13.5 \end{array}$$ 13.5 mm

math Antics Worksheets

Name: _____

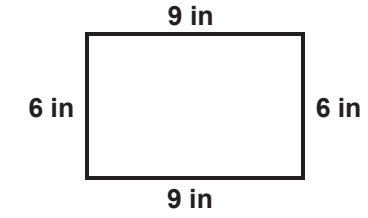
Date: _____

Finding the Perimeter of Rectangles

G-PER 2

Instructions: Find the perimeter of each rectangle by adding up the lengths of it's four sides. Remember that you can add the sides in any order you want to. Don't forget your units!

1

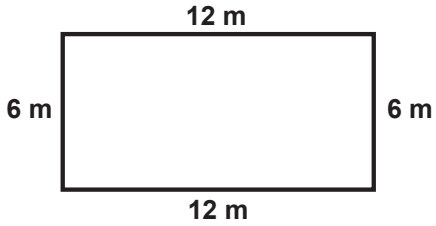


9 + 9 = 18

6 + 6 = 12

$$\begin{array}{r} {\scriptstyle 1}\\ 18\\ +\ 12\\ \hline 30 \text{ in} \end{array}$$

2

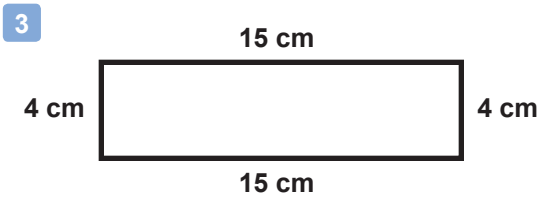


12 + 12 = 24

6 + 6 = 12

$$\begin{array}{r} 24\\ +\ 12\\ \hline 36 \text{ m} \end{array}$$

3



15 + 15 = 30

4 + 4 = 8

$$\begin{array}{r} 30\\ +\ 8\\ \hline 38 \text{ cm} \end{array}$$

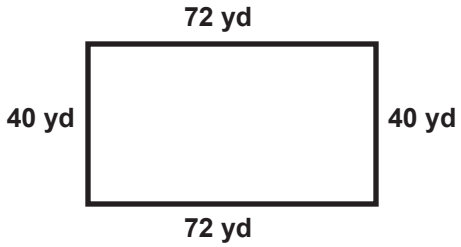
4

32 + 32 = 64

19 + 19 = 38

$$\begin{array}{r} {\scriptstyle 1}\\ 64\\ +\ 38\\ \hline 102 \text{ mm} \end{array}$$

5

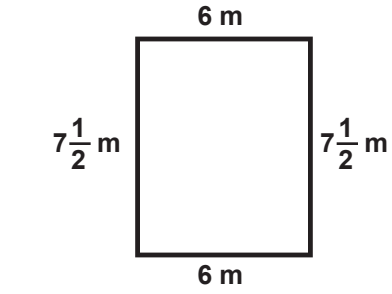


72 + 72 = 144

40 + 40 = 80

$$\begin{array}{r} {\scriptstyle 1}\\ 144\\ +\ 80\\ \hline 224 \text{ yd} \end{array}$$

6



$7\frac{1}{2} + 7\frac{1}{2} = 15$

6 + 6 = 12

$$\begin{array}{r} 15\\ +\ 12\\ \hline 27 \text{ m} \end{array}$$

math Antics Worksheets

Name: _____

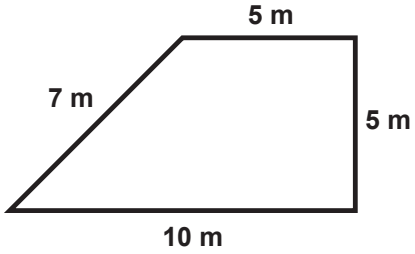
Date: _____

Finding the Perimeter of Polygons

G-PER 3

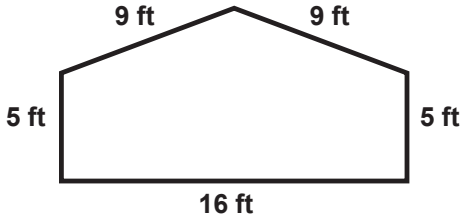
Instructions: Find the perimeter of each polygon by adding up the lengths of all of it's sides. You can add the sides in any order you want to. Don't forget your units!

1



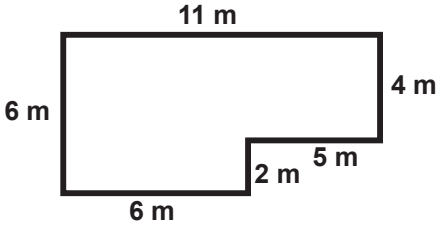
5 + 5 + 10 + 7 = 27 m

2



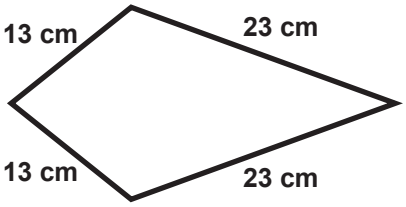
16 + 5 + 5 = 26 → 26
9 + 9 = 18 → + 18
44 ft

3



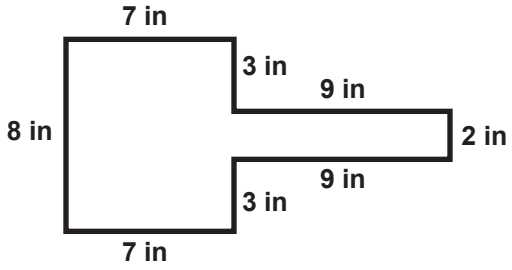
6 + 6 + 11 = 23 → 23
4 + 5 + 2 = 11 → + 11
34 m

4



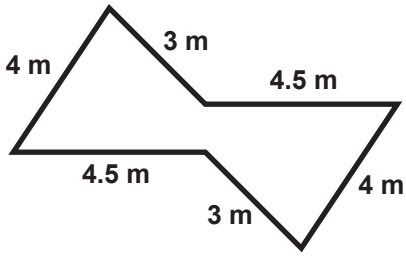
13 + 13 = 26 → 26
23 + 23 = 46 → + 46
72 cm

5



3 + 7 + 3 + 7 + 8 = 28 → 28
9 + 9 + 2 = 20 → + 20
48 in

6



4 + 4 + 3 + 3 = 14 → 14
4.5 + 4.5 = 9 → + 9
23 m

math Antics Worksheets

Name:

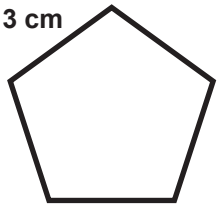
Date:

Finding the Perimeter of Regular Polygons

G-PER 4

Instructions: Find the perimeter of each **regular** polygon by adding up the lengths of all it's sides. Since these are regular polygons, use multiplication as a shortcut. Don't forget your units!

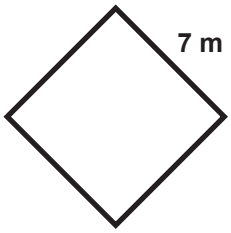
1



5 equal sides, 3 cm per side

5 × 3 = 15 cm

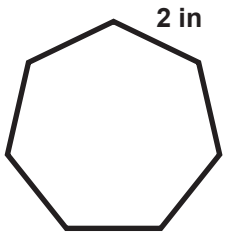
2



4 equal sides, 7 m per side

4 × 7 = 28 m

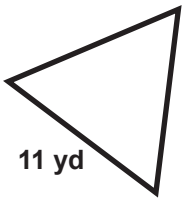
3



7 equal sides, 2 inches per side

7 × 2 = 14 in

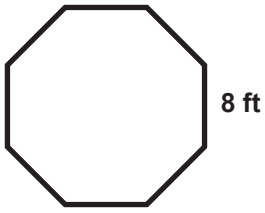
4



3 equal sides, 11 yd per side

3 × 11 = 33 yd

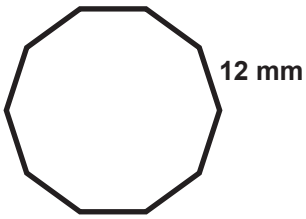
5



8 equal sides, 8 ft per side

8 × 8 = 64 ft

6



10 equal sides, 12 mm per side

10 × 12 = 120 mm

math Antics Worksheets

Name: _____

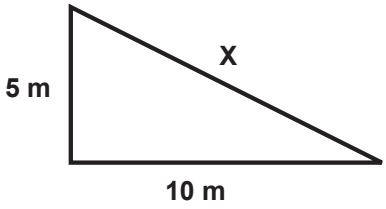
Date: _____

Using the Perimeter to Find a Missing Side

G-PER 5

Instructions: Use the perimeter of each polygon to figure out the length of the missing side (X). (Hint: Subtract the sum of the sides you *do* know from the total perimeter and see what is left over.)

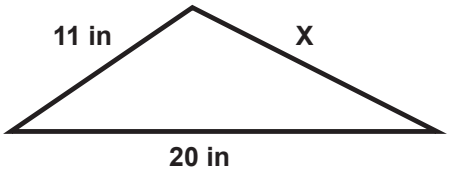
1



Perimeter = 26 m

X = 26 - (5 + 10)
X = 26 - 15
X = 11 m

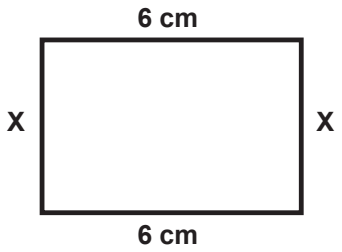
2



Perimeter = 44 in

X = 44 - (20 + 11)
X = 44 - 31
X = 13 in

3

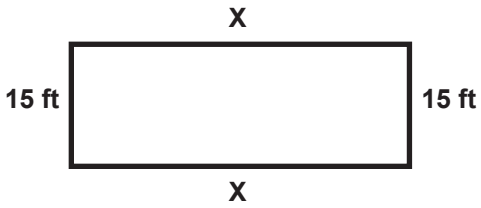


Perimeter = 20 cm

Since the opposite sides of a rectangle are equal, X must be half of this leftover amount.

20 - (6 + 6) = 8
8 ÷ 2 = 4 so X = 4 cm

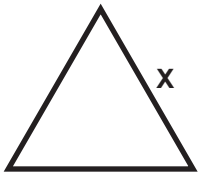
4



Perimeter = 114 ft

114 - (15 + 15) = 84
84 ÷ 2 = 42 so X = 42 ft

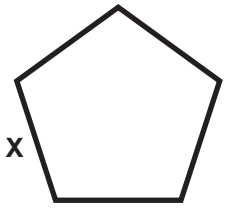
5 This equilateral triangle has a perimeter of 60 mm. What is the length of side X?



Because all 3 sides are equal, we can just divide the total by 3.

X = 60 ÷ 3
X = 20 mm

6 This regular pentagon has a perimeter of 25 km. What is the length of side X?



Because all 5 sides are equal, we can just divide the total by 5.

X = 25 ÷ 5
X = 5 km

math Antics Worksheets

Name: _____

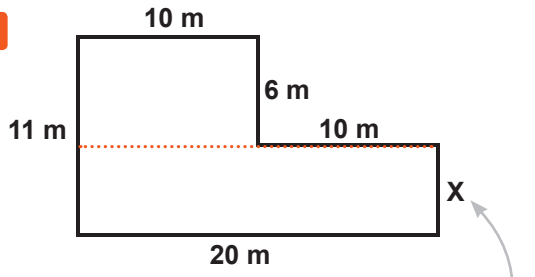
Date: _____

Perimeter : Missing Information Problems

G-PER 6

Instructions: Find the perimeter of each polygon. (Hint: Use what you *do* know to figure out what you *don't* know.) Remember that you can add up the sides in any order that is easiest for you.

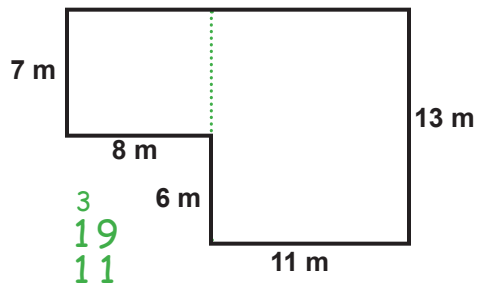
1



11 - 6 = 5 m

1
20
10
10
11
5
+ 6
62 m

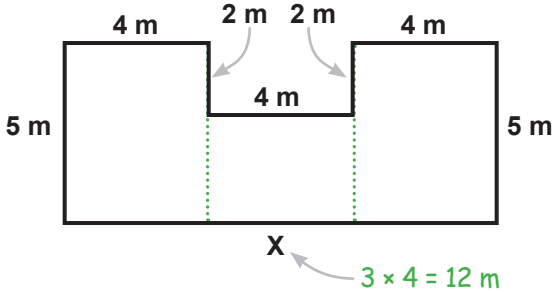
2



11 + 8 = 19 m

3
19
11
13
7
8
+ 6
64 m

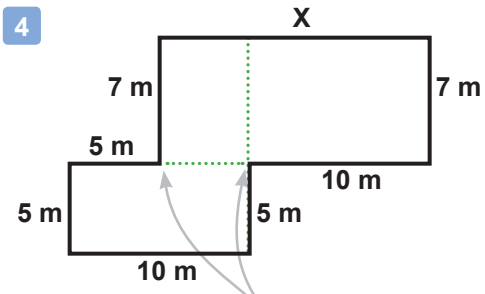
3



3 × 4 = 12 m

2
12
5
5
4
4
4
2
+ 2
38 m

4



10 + 5 = 15 m

This length must be 5 m because 10 - 5 = 5

That means X must be 10 + 5 which is 15 m

3
15
10
10
5
5
5
7
+ 7
64 m

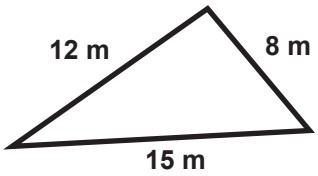
math Antics
Exercises

Name:

Date:

Perimeter

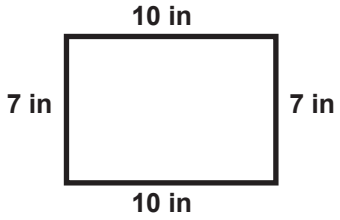
1 Find the perimeter of this triangle.



$$\begin{array}{r} {\scriptstyle 1}\\ 15\\ 12\\ +\ \ 8\\ \hline 35 \end{array}$$

P = 35 m

2 Find the perimeter of this rectangle.



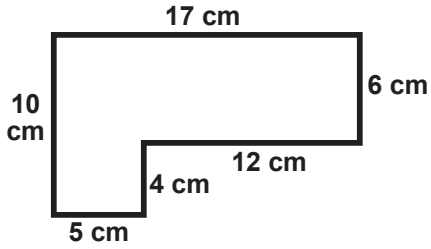
10 + 10 = 20

7 + 7 = 14

$$\begin{array}{r} 20\\ +\ 14\\ \hline 34 \end{array}$$

P = 34 in

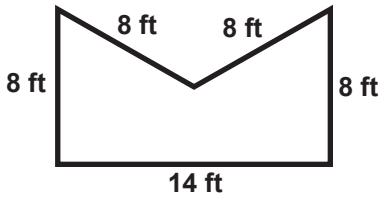
3 Find the perimeter of this polygon.



$$\begin{array}{r} {\scriptstyle 2}\\ 17\\ 12\\ 10\\ 6\\ 4\\ +\ \ 5\\ \hline 54 \end{array}$$

P = 54 cm

4 Find the perimeter of this polygon.

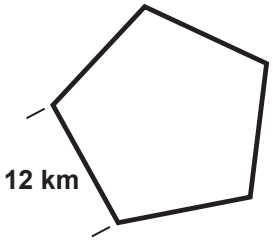


4 × 8 = 32

$$\begin{array}{r} 32\\ +\ 14\\ \hline 46 \end{array}$$

P = 46 ft

5 Find the perimeter of this **regular** pentagon.



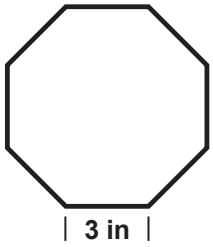
5 equal sides

12 km per side

5 × 12 = 60

P = 60 km

6 Find the perimeter of this **regular** octagon.



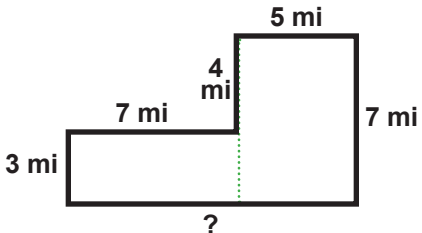
8 equal sides

3 inches per side

3 × 8 = 24

P = 24 in

7 Find the perimeter. Use what you do know to find the side you don't know.

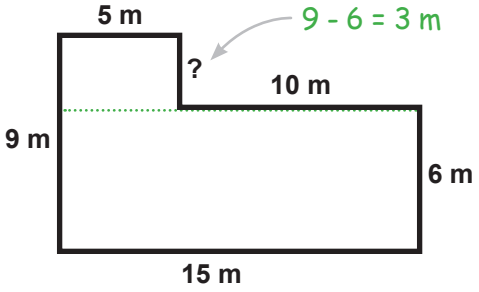


7 + 5 = 12 mi

$$\begin{array}{r} {\scriptstyle 2}\\ 12\\ 7\\ 7\\ 3\\ 4\\ +\ \ 5\\ \hline 38 \end{array}$$

P = 38 mi

8 Find the perimeter.



$$\begin{array}{r} {\scriptstyle 2}\\ 15\\ 10\\ 5\\ 9\\ 6\\ +\ \ 3\\ \hline 48 \end{array}$$

P = 48 m

See Video for step-by-step solutions to each problem.