Finding the Perimeter of Triangles

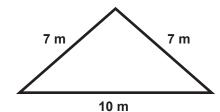
G-PER 1

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

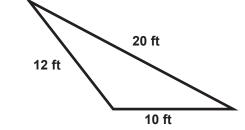
9 in 4 in

8 in

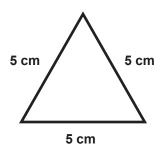
2



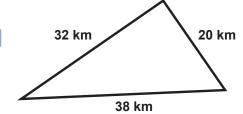
3

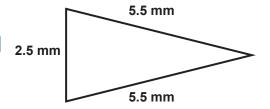


4



5





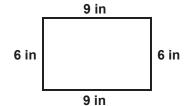


Date:

Finding the Perimeter of Rectangles

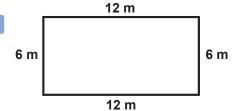
G-PER 2

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!

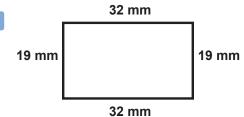


$$9 + 9 = 18$$
 $6 + 6 = 12$
 $+ 12$

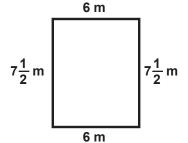
2



3 15 cm 4 cm 4 cm 15 cm



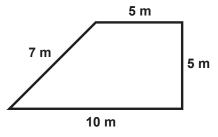
72 yd 5 40 yd 72 yd



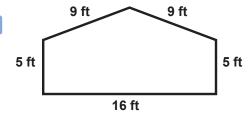
Finding the Perimeter of Polygons

G-PER 3

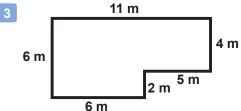
Instructions: Find the perimeter of each polygon by adding up the lengths of all of it's sides. You can add the sides in any order you want to. Don't forget your units!



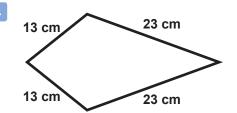
2



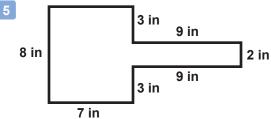
3

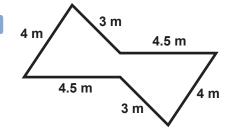


4



5





7 in

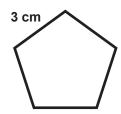


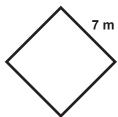
Date:

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!



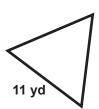


5 equal sides, 3 cm per side

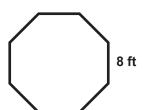
$$5 \times 3 = 15 \text{ cm}$$

3

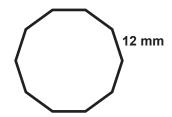




5

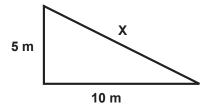


6



Using the Perimeter to Find a Missing Side

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.)

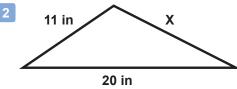


Perimeter = 26 m

$$X = 26 - (5 + 10)$$

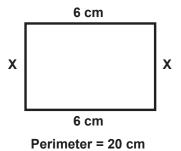
$$X = 26 - 15$$

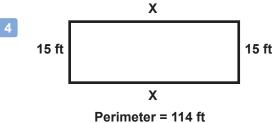
$$X = (11 \text{ m})$$



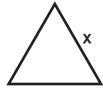
Perimeter = 44 in

3

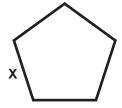




This equilateral triangle has a perimeter of 60 mm. What is the length of side X?



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



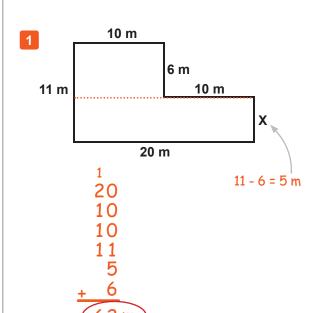


Date:

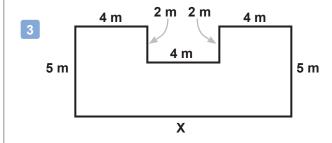
Perimeter: Missing Information Problems

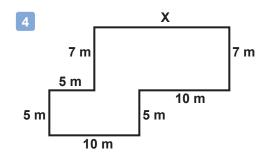
G-PER 6

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.



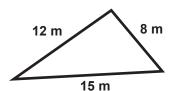
2 $\boldsymbol{\mathsf{X}}$ 7 m 13 m 8 m 6 m 11 m



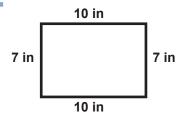


Perimeter

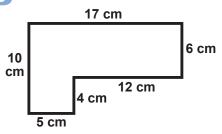
1 Find the perimeter of this triangle.



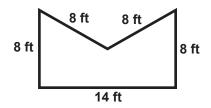
Tind the perimeter of this rectangle.



? Find the perimeter of this polygon.



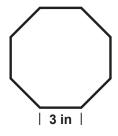
Find the perimeter of this polygon.



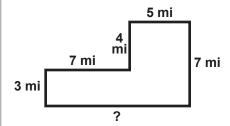
Find the perimeter of this **regular** pentagon.



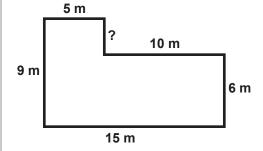
Find the perimeter of this **regular** octagon.



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



8 Find the perimeter.



Finding the Perimeter of Triangles

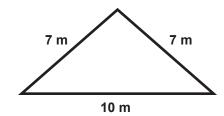
G-PER 1

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

9 in 4 in

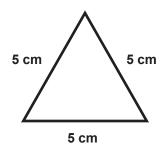
8 in

2

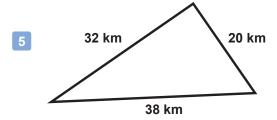


3 20 ft 12 ft 10 ft

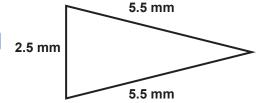
4



$$5 + 5 + 5 = 15 \text{ cm}$$



6

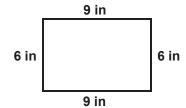




Finding the Perimeter of Rectangles

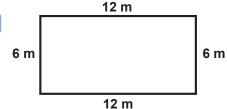
G-PER 2

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!



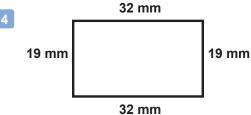
$$9 + 9 = 18$$
 $6 + 6 = 12$
 $+ 12$
 $+ 12$
 $+ 30 \text{ in}$

2



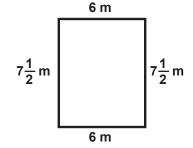
$$12 + 12 = 24$$
 $6 + 6 = 12$
 36 m

3 15 cm 4 cm 4 cm 15 cm



72 yd 5 40 yd 40 yd 72 yd

$$72 + 72 = 144$$
 $40 + 40 = 80$
 $+ 80$
 $+ 80$
 $+ 80$



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

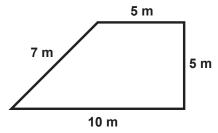
$$6 + 6 = 12$$

$$27 \text{ m}$$

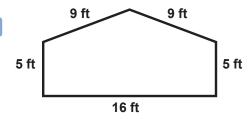
Finding the Perimeter of Polygons

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!



2

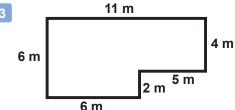


$$16 + 5 + 5 = 26$$

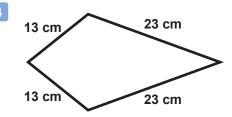
$$9 + 9 = 18$$

$$44 \text{ ft}$$

3



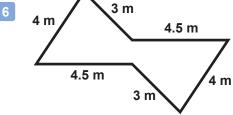
4



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

7 in 5 3 in 9 in 8 in 2 in 9 in 3 in 7 in

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



$$4 + 4 + 3 + 3 = 14$$
 $4.5 + 4.5 = 9$
 $+ 9$
 $+ 23 \text{ m}$

Finding the Perimeter of Regular Polygons

G-PER 4

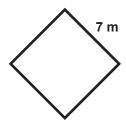
Instructions: Find the perimeter of each regular polygon by adding up the lengths of all it's sides. Since these are regular polygons, use multiplication as a shortcut. Don't forget your units!



5 equal sides, 3 cm per side

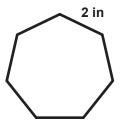
$$5 \times 3 = 15 \text{ cm}$$

2



4 equal sides, 7 m per side

3



7 equal sides, 2 inches per side

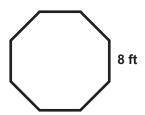
$$7 \times 2 = 14 \text{ in}$$

4



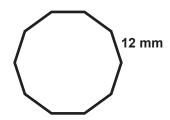
3 equal sides, 11 yd per side

5



8 equal sides, 8 ft per side

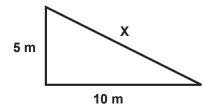
6



10 equal sides, 12 mm per side

Using the Perimeter to Find a Missing Side

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.)



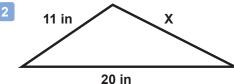
Perimeter = 26 m

$$X = 26 - (5 + 10)$$

$$X = 26 - 15$$

$$X = (11 \text{ m})$$

2



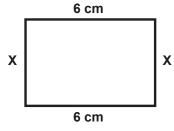
Perimeter = 44 in

$$X = 44 - (20 + 11)$$

$$X = 44 - 31$$

$$X = 13 in$$

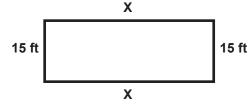
3



Perimeter = 20 cm

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

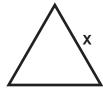
$$8 \div 2 = 4$$
 so $X = 4$ cm



Perimeter = 114 ft

$$84 \div 2 = 42$$
 so $X = 42$ ft

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.

$$X = 60 \div 3$$

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.

$$X = 25 \div 5$$

$$X = (5 \text{ km})$$

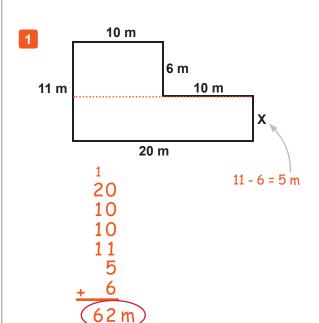


Date:

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.



7 m

8 m

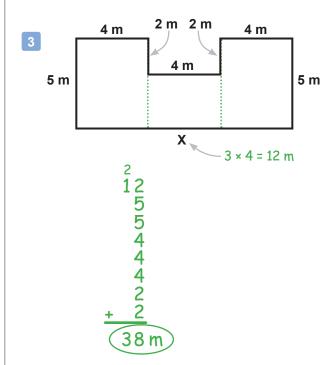
3 6 m

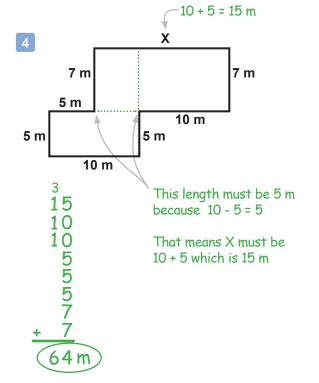
19

11 m

13 m

13 m

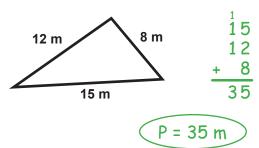




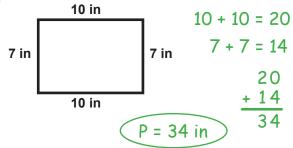
Date:

Perimeter

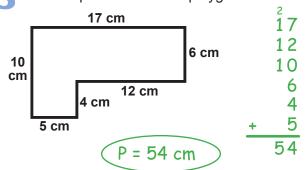
1 Find the perimeter of this triangle.



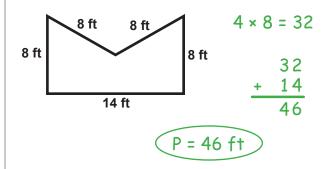
Find the perimeter of this rectangle.



? Find the perimeter of this polygon.



✓ Find the perimeter of this polygon.

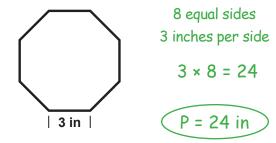


Find the perimeter of this **regular** pentagon.

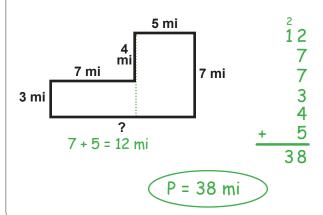


5 equal sides 12 km per side

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



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



8 Find the perimeter.

