Math Antics
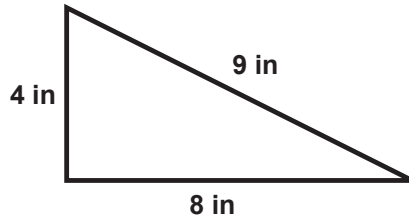
Worksheets

Name: _____

Date: _____

Finding the Perimeter of Triangles

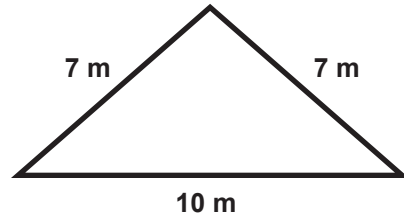**Instructions:** Find the perimeter of each triangle by adding up the lengths of its three sides. Don't forget your units!
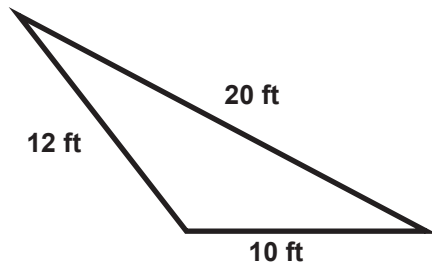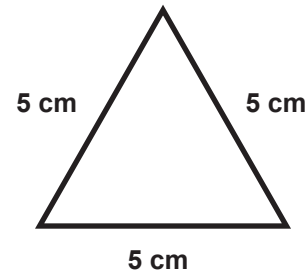
1

9 in
4 in
8 in

$8 + 9 + 4 =$ (21 in)

2

7 m   7 m
10 m

$7 + 7 + 10 =$ (24 m)

3

20 ft
12 ft
10 ft

$10 + 20 + 12 =$ (42 ft)

4

5 cm   5 cm
5 cm

$5 + 5 + 5 =$ (15 cm)

5

32 km   20 km
38 km
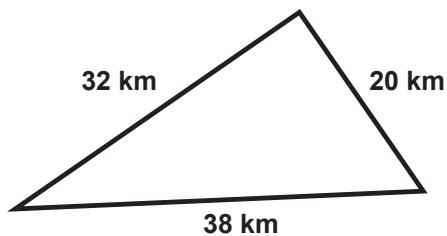
$$\begin{array}{r} \overset{1}{3}8 \\ 32 \\ +\ 20 \\ \hline 90 \end{array}$$ (90 km)

6

5.5 mm
2.5 mm
5.5 mm
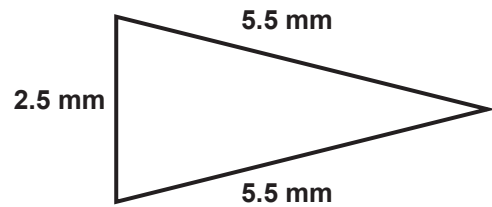
$$\begin{array}{r} \overset{1}{5}.5 \\ 5.5 \\ +\ 2.5 \\ \hline 13.5 \end{array}$$ (13.5 mm)

Math Antics Worksheets
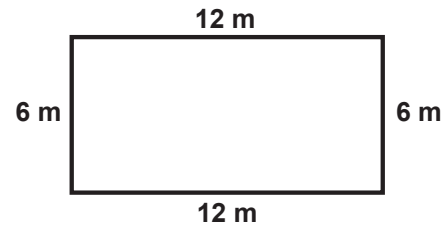
Finding the Perimeter of Rectangles

Instructions: Find the perimeter of each rectangle by adding up the lengths of its four sides. Remember that you can add the sides in any order you want to. Don't forget your units!
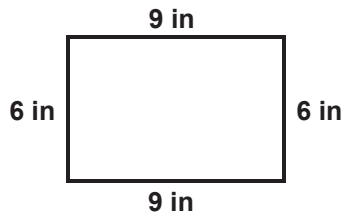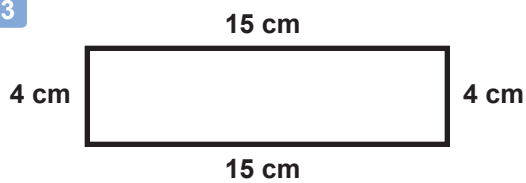
1

9 in (top), 6 in (left), 6 in (right), 9 in (bottom)

$9 + 9 = 18$ → 18
$6 + 6 = 12$ → $+ 12$
= **30 in**

2

12 m (top), 6 m (left), 6 m (right), 12 m (bottom)

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

3

15 cm (top), 4 cm (left), 4 cm (right), 15 cm (bottom)

$15 + 15 = 30$ → 30
$4 + 4 = 8$ → $+ \ 8$
= **38 cm**

4

32 mm (top), 19 mm (left), 19 mm (right), 32 mm (bottom)

$32 + 32 = 64$ → 64
$19 + 19 = 38$ → $+ 38$
= **102 mm**

5

72 yd (top), 40 yd (left), 40 yd (right), 72 yd (bottom)

$72 + 72 = 144$ → 144
$40 + 40 = 80$ → $+ \ 80$
= **224 yd**

6

6 m (top), $7\frac{1}{2}$ m (left), $7\frac{1}{2}$ m (right), 6 m (bottom)

$7\frac{1}{2} + 7\frac{1}{2} = 15$ → 15
$6 + 6 = 12$ → $+ 12$
= **27 m**

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Worksheets

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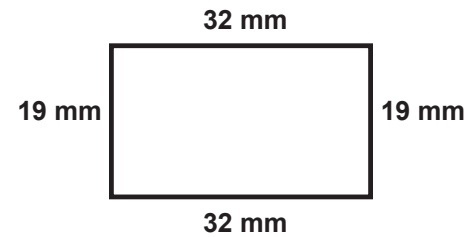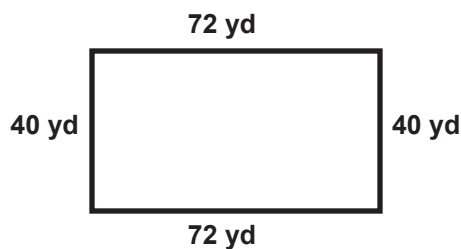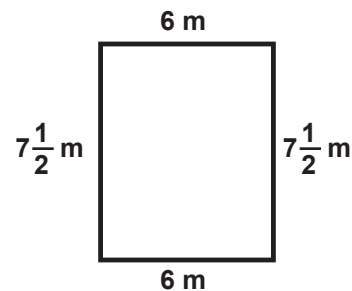
Finding the Perimeter of Polygons

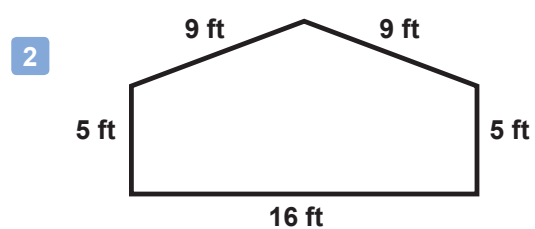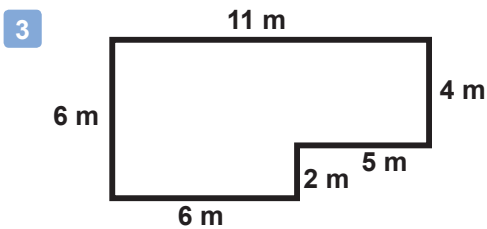**Instructions:** Find the perimeter of each polygon by adding up the lengths of all of its sides. You can add the sides in any order you want to. Don't forget your units!
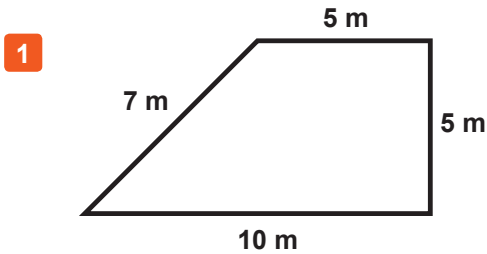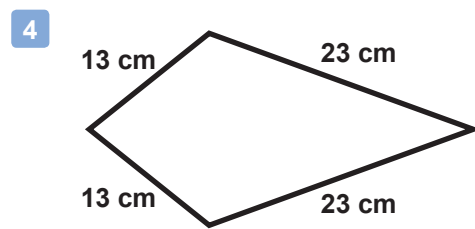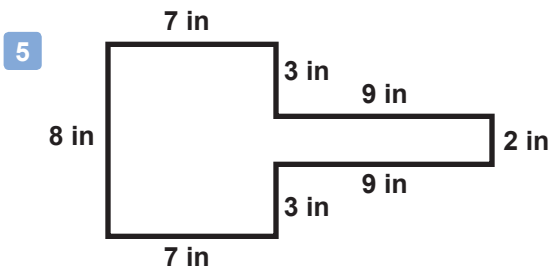
1

5 m
7 m
5 m
10 m

$5 + 5 + 10 + 7 =$ (**27 m**)

2

9 ft   9 ft
5 ft   5 ft
16 ft

$16 + 5 + 5 = 26$ → 26
$9 + 9 = 18$ → $+ 18$
(**44 ft**)

3

11 m
6 m
4 m
2 m   5 m
6 m

$6 + 6 + 11 = 23$ → 23
$4 + 5 + 2 = 11$ → $+ 11$
(**34 m**)

4

13 cm   23 cm
13 cm   23 cm

$13 + 13 = 26$ → 26
$23 + 23 = 46$ → $+ 46$
(**72 cm**)

5

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

$3 + 7 + 3 + 7 + 8 = 28$ → 28
$9 + 9 + 2 = 20$ → $+ 20$
(**48 in**)

6

4 m   3 m
4.5 m
4.5 m   4 m
3 m

$4 + 4 + 3 + 3 = 14$ → 14
$4.5 + 4.5 = 9$ → $+ 9$
(**23 m**)

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Math Antics Worksheets
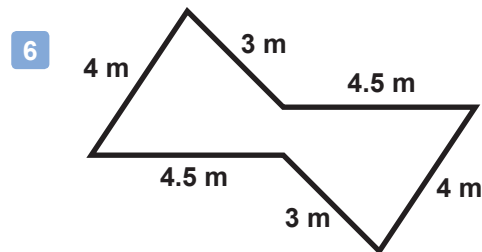
Finding the Perimeter of Regular Polygons

Instructions: Find the perimeter of each **regular** polygon by adding up the lengths of all its sides. Since these are regular polygons, you can <u>use multiplication as a shortcut</u>. Don't forget your units!

1

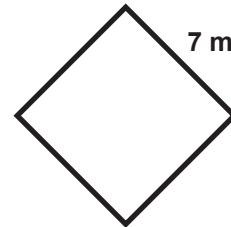3 cm
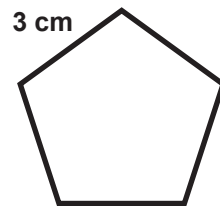
5 equal sides, 3 cm per side

$5 \times 3 =$ (15 cm)

2

7 m

4 equal sides, 7 m per side

$4 \times 7 =$ (28 m)

3

2 in
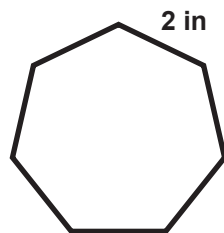
7 equal sides, 2 inches per side

$7 \times 2 =$ (14 in)

4
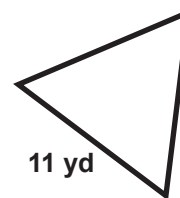
11 yd

3 equal sides, 11 yd per side

$3 \times 11 =$ (33 yd)

5

8 ft
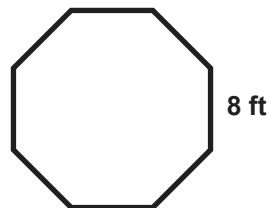
8 equal sides, 8 ft per side

$8 \times 8 =$ (64 ft)

6
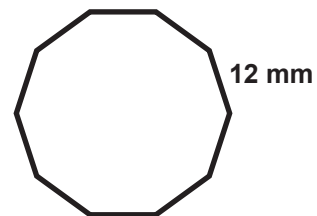
12 mm

10 equal sides, 12 mm per side

$10 \times 12 =$ (120 mm)

Math Antics Worksheets

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.)
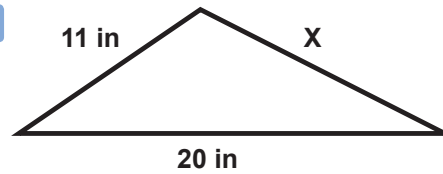
1

X

5 m

10 m
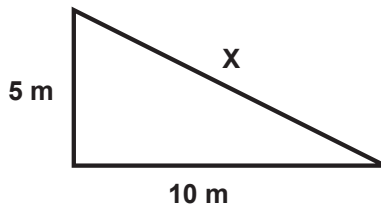
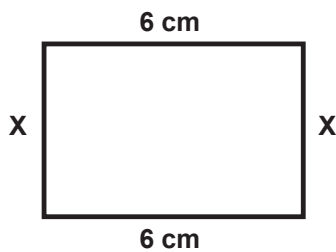**Perimeter = 26 m**

$X = 26 - (5 + 10)$
$X = 26 - 15$
$X = \boxed{11 \text{ m}}$

2

11 in   X

20 in

Perimeter = 44 in

$X = 44 - (20 + 11)$
$X = 44 - 31$
$X = \boxed{13 \text{ in}}$

3

6 cm

X   X

6 cm

Perimeter = 20 cm

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

$20 - (6 + 6) = 8$

$8 \div 2 = 4$ so $\boxed{X = 4 \text{ cm}}$

4

X

15 ft   15 ft

X
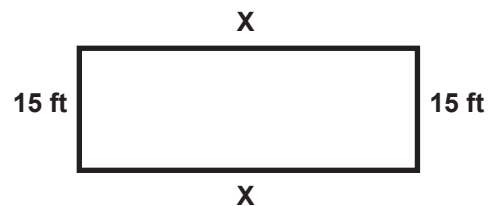
Perimeter = 114 ft

$114 - (15 + 15) = 84$

$84 \div 2 = 42$ so $\boxed{X = 42 \text{ ft}}$

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

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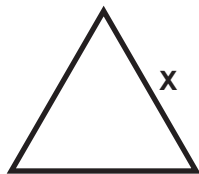
Because all 3 sides are equal, we can just divide the total by 3.

$X = 60 \div 3$

$X = \boxed{20 \text{ mm}}$

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

X

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

$X = 25 \div 5$

$X = \boxed{5 \text{ km}}$

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Date: _____

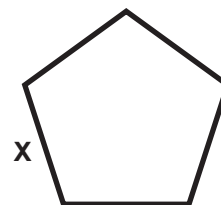# Perimeter : Missing Information Problems

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

```
      10 m
          6 m
11 m          10 m
                    X
      20 m
```

11 - 6 = 5 m

```
 1
 20
 10
 10
 11
  5
+ 6
 62 m
```

2

11 + 8 = 19 m

```
      X
7 m              13 m
    8 m
         6 m
          11 m
```

```
 3
 19
 11
 13
  7
  8
+ 6
 64 m
```

3

```
 4 m   2 m  2 m   4 m
          4 m
5 m               5 m

        X
```

3 × 4 = 12 m

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

4

10 + 5 = 15 m

```
            X
7 m              7 m
5 m
5 m        10 m
   5 m
  10 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
```

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