

Math Practice Sheets

Two-Dimensional Measurement Formulae

Student Name



Examples

Practice Questions

Extra Challenge Unit

**Unit
23.1****Perimeter****Example**

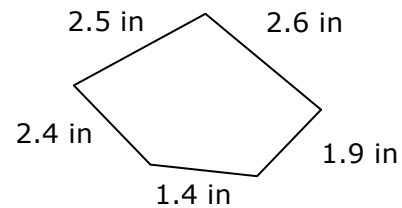
The sum of distances of all of the sides of the polygon is the perimeter.

Example 1: Find the perimeter of the figure on the right.

Solution: Add the lengths of all the sides.

$$2.5 \text{ in} + 2.6 \text{ in} + 1.9 \text{ in} + 1.4 \text{ in} + 2.4 \text{ in} = 10.8 \text{ in}$$

So, the perimeter of polygon is 10.8 in.



Note: 1) The perimeter of a rectangle with length (l) and width (w) is

$$P = 2l + 2w = 2(l + w)$$

2) The perimeter of a square with length of each side 'l' is

$$P = l + l + l + l = 4l$$

Example 2: What will be length of the missing side the figure below if its perimeter is 25 cm?

Solution: $P = \text{sum of sides}$

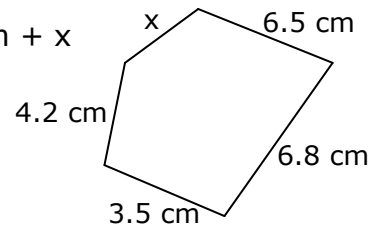
$$25 \text{ cm} = 6.5 \text{ cm} + 4.2 \text{ cm} + 6.8 \text{ cm} + 3.5 \text{ cm} + x$$

$$\text{or, } 25 = 21 + x$$

$$\text{or, } 25 - 21 = 21 + x - 21$$

$$\text{or, } x = 4$$

So, the length of x is 4 cm.

**Exercise**

1. Find the perimeter of the following polygons.

