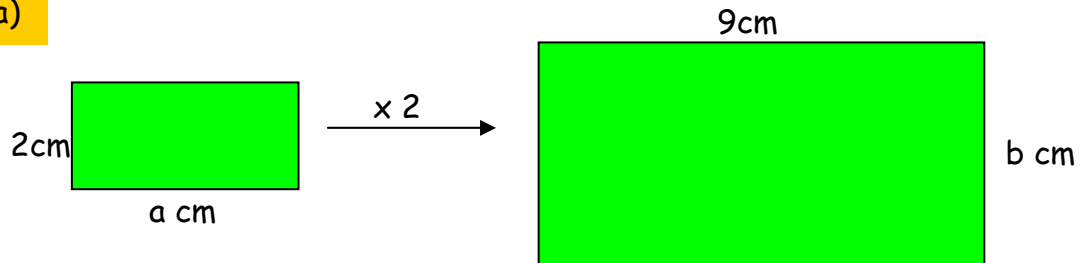


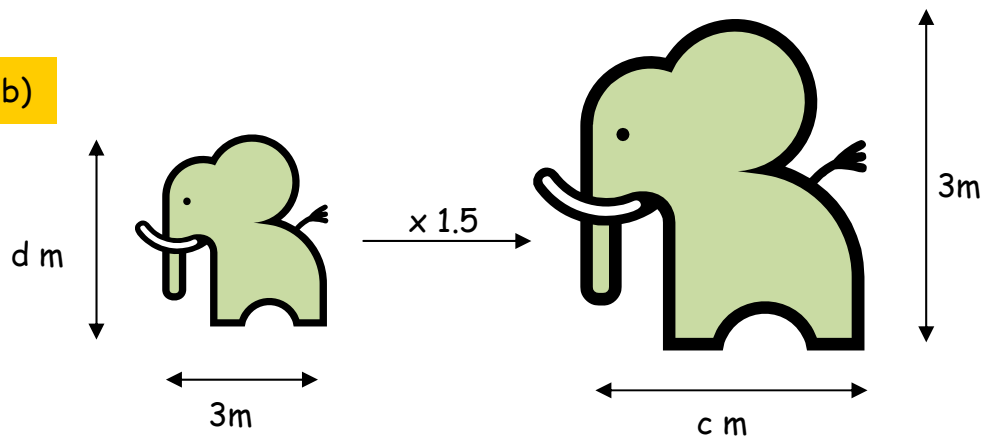
Similarity Worksheet.

1. Each pair of pictures below shows either an **enlargement** or **reduction**. Calculate the unknown sizes.

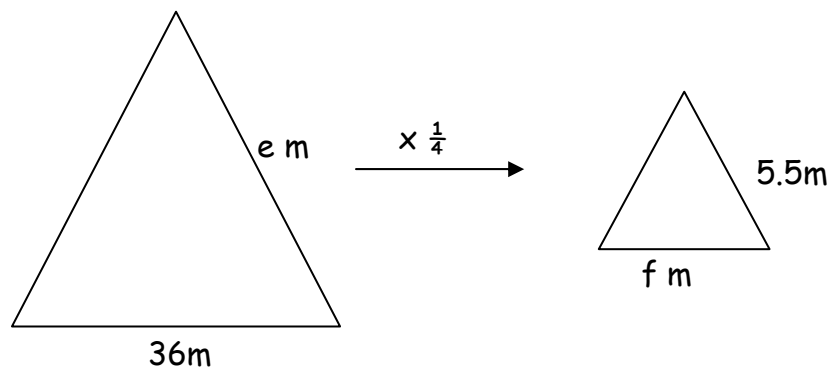
a)



b)

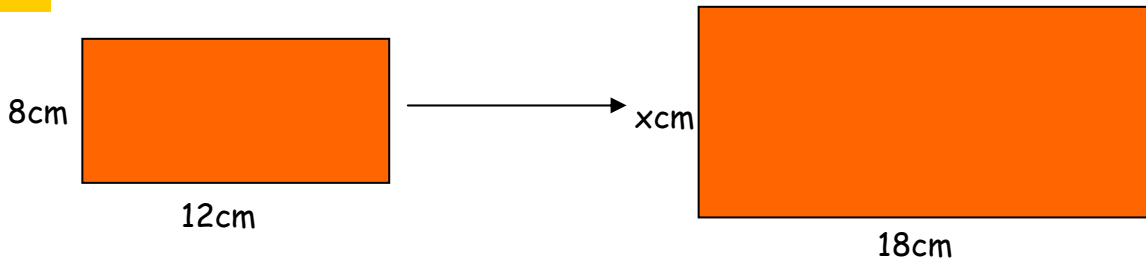


c)

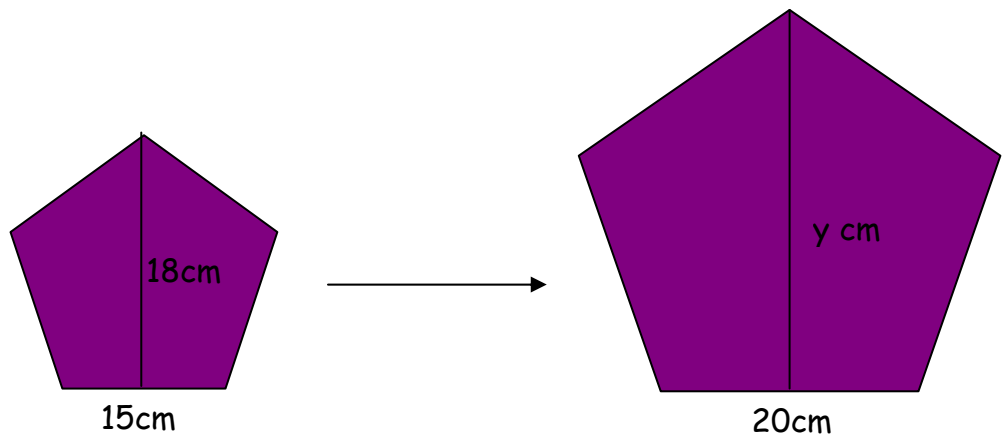


2. Each of the following shows pairs of **similar figures**. In each case calculate the length of the side marked x , y , z and w

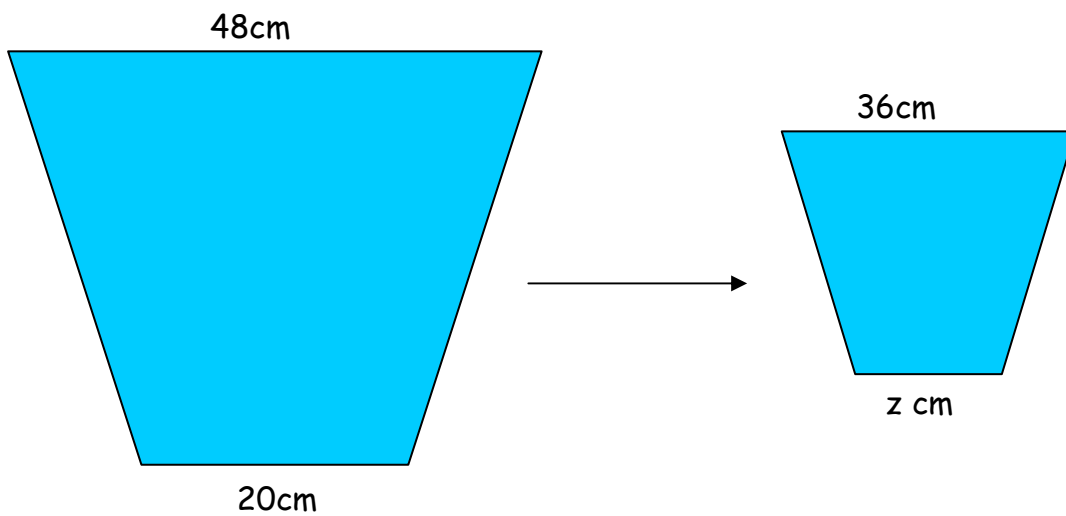
a)



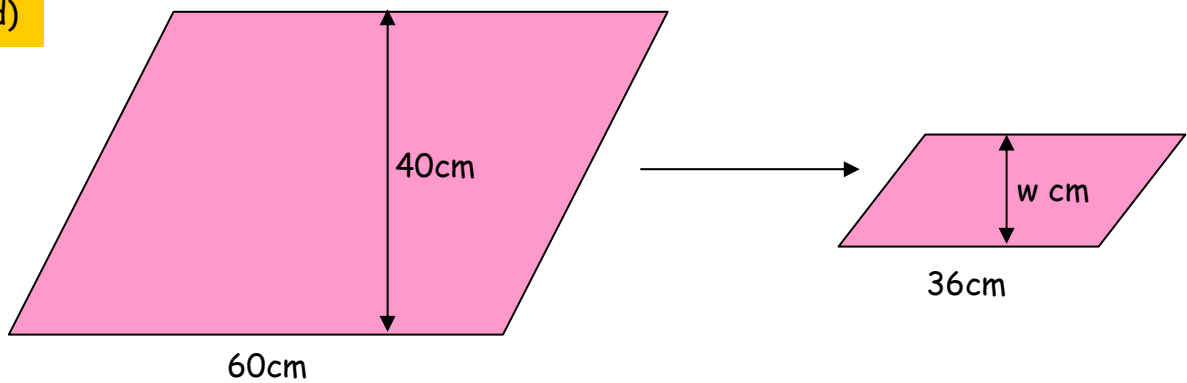
b)



c)

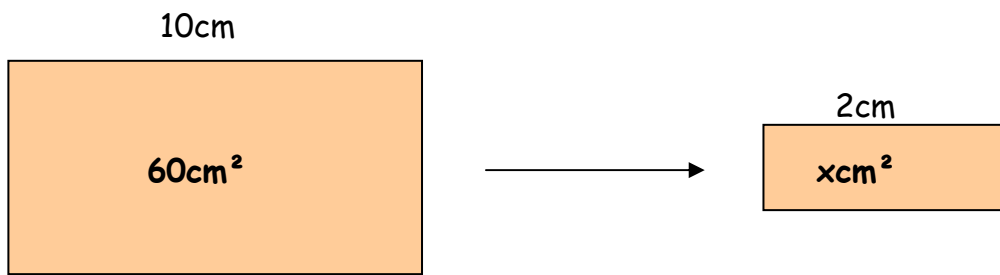


d)

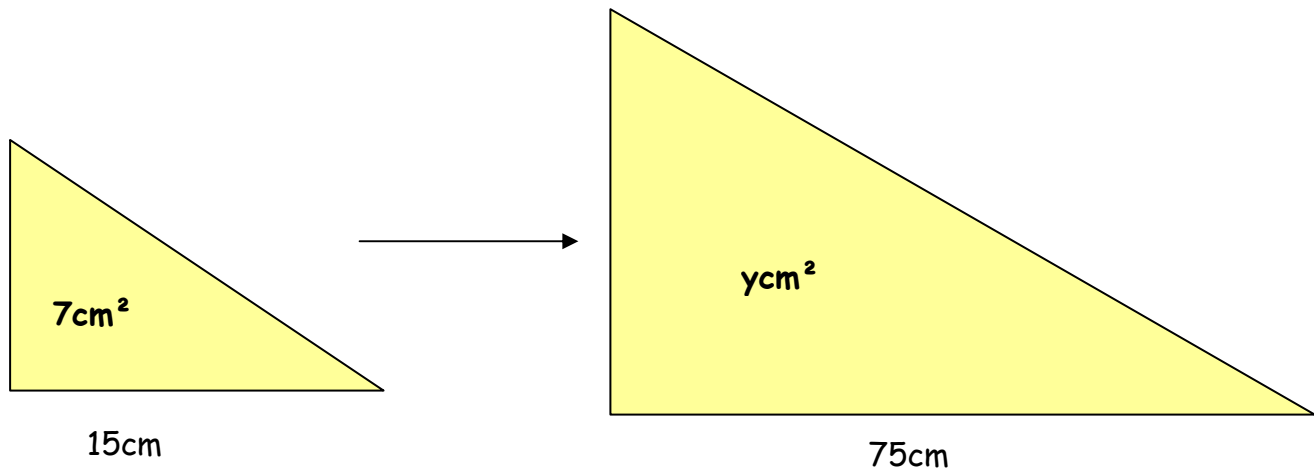


3. Find each of these similar areas.

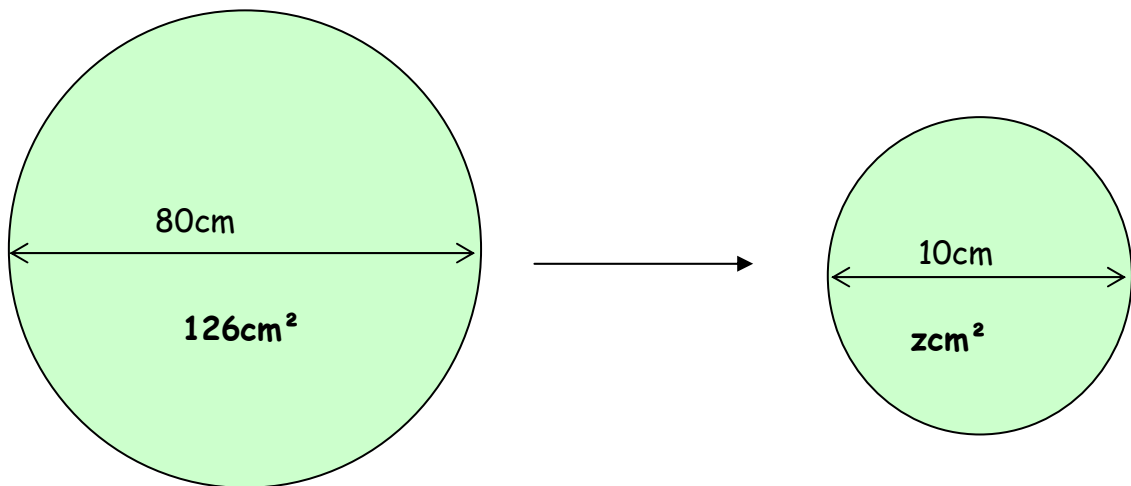
a)



b)



c)



Similarity Answers.

1 a) $a = 4.5 \text{ cm}$ $b = 4 \text{ cm.}$

b) $c = 4.5 \text{ m}$ $d = 2 \text{ m}$

c) $e = 22\text{m}$ $f = 9 \text{ m}$

2a) $x = 12 \text{ cm}$

b) $y = 24 \text{ cm}$

c) $z = 15 \text{ cm}$

d) $w = 24 \text{ cm}$

3a) $x = 2.4 \text{ cm}^2$

b) $y = 175 \text{ cm}^2$

c) $z = 1.97 \text{ cm}^2$