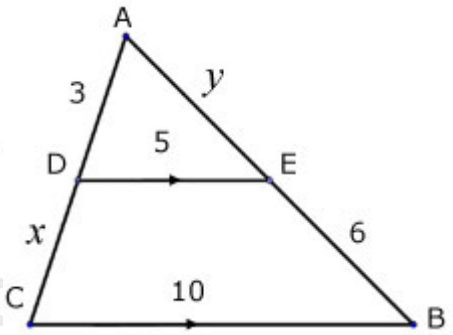
1. A right-angled triangle has sides of length 3 cm, 4 cm and 5 cm.
   In ascending order, what are the lengths of the sides of similar triangles with the following areas: (answers to 2 d.p.)

   (a) 24 cm^2 (b) 65 cm^2 (c) 112cm^2 (d) 18cm^2 (e) 39cm^2

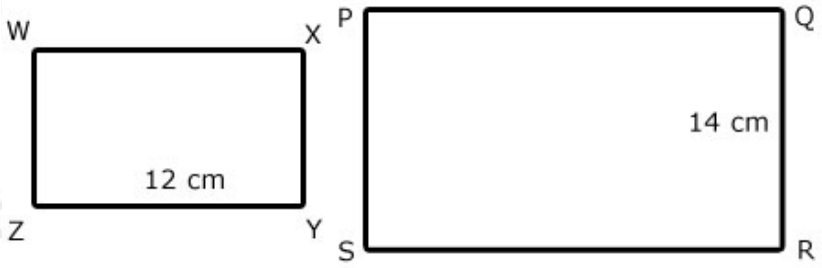
2. A regular cylinder of height 25 cm has a volume of 450 cm^3 .

   (a) what is the volume of a similar cylinder of twice the height ?
   (b) what is the height of another similar cylinder with twice the original volume ?
   (answers to 2 d.p.)

3. Find the lengths *x* and *y* in triangle ABC. (answers to 2 d.p.)



4. The two rectangles WXYX and PQRS are similar.
   Find the lengths XY and SR if the ratio of the area of the smaller rectangle to the larger is 1: 4



1. (a) 6, 8, 10
   (b) 9.87, 13.17, 16.46
   (c) 12.96, 17.28, 21.60
   (d) 5.20, 6.93, 8.66
   (e) 7.65, 10.20, 12.75+

2. (a) 3,600 cm^3
   (b) 31.50 cm^3

3. $x = 3$, $y = 6$

4. XY = 7 cm, SR = 24 cm