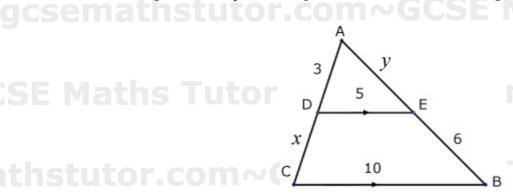
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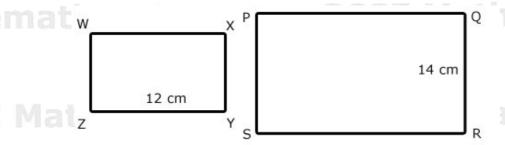
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- 1. A right-angled triangle has sides of length 3 cm, 4 cm and 5 cm. In ascending order, what are the lengths of the sides of similar triangles with the following areas: (answers to 2 d.p.)
  - (a)  $24 \text{ cm}^2$
- (b)  $65 \text{ cm}^2$
- (c) 112cm<sup>2</sup>
- (d)  $18 \text{cm}^2$
- (e)  $39 \text{cm}^2$
- 2. A regular cylinder of height 25 cm has a volume of 450 cm<sup>3</sup>.
  - (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.) utor~ www.gcsemathstutor.con
- 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



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  - (a) 6, 8, 10
    - (b) 9.87, 13.17, 16.46
    - (c) 12.96, 17.28, 21.60
- (c) 12.30, 17.28, 21.00 (d) 5.20, 6.93, 8.66
  - (e) 7.65, 10.20, 12.75+
- 2. (a) 3,600 cm<sup>3</sup> (b) 31.50 cm<sup>3</sup> (c) CSE Maths Tutory WWW.gc
- $CS^{3}$ : X=3: Y=6: Tutor~ www.gcsemathstutor.con

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