3.6 Scale Drawings and Maps: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A site plan shows 8 cm corresponding to 100 m in reality. Write the scale of the plan in the form 1:n.

(2)

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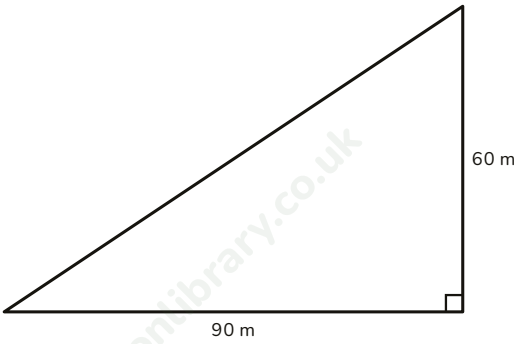
2 A map shows two landmarks 3.8 cm apart. The scale statement is 1 cm = 750 m. Find the real distance in metres.

(2)

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3 A school's sports field is a right triangle with legs 90 m and 60 m. A student draws a plan at scale 1:250. Calculate the length of the hypotenuse on the drawing in centimetres, correct to one decimal place.

Diagram NOT accurately drawn



(4)

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Mark scheme · 3.6 Scale Drawings and Maps: 10-minute Pack

Question 1

100 m = 10 000 cm so ratio 8:10000 then divide by 8	**M1**
1:1250 cao	**A1**

Answer: **1:1250**

Question 2

3.8 x 750 = 2 850 m	**M1**
2850 m cao	**A1**

Answer: **2850 m**

Question 3

find real hypotenuse: $\sqrt{90^2 + 60^2} = \sqrt{11\ 700} =$ 108.166... m	**M1**
convert to cm: 108.166... m = 10 816.66... cm then scale by 1/250 giving 43.2666... cm	**M1**
round to one decimal place correctly	**M1**
43.3 cm cao	**A1**

Answer: **43.3 cm**

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