4.8 Area of Parallelograms, Trapezia and Compound Shapes: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

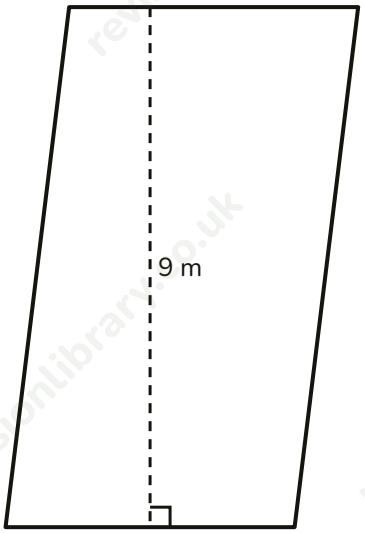
Answer ALL questions. Show all your working.

1 A rectangle has area 45 m² and width 5 m. A parallelogram has the same area and height 9 m. Work out the base of the parallelogram.

Diagram NOT accurately drawn



Area = 45 m²



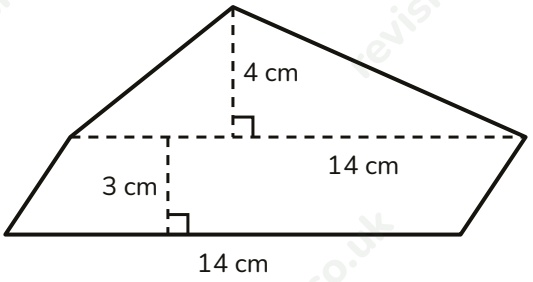
Area = 45 m²

(2)

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2 A compound shape consists of a parallelogram with base 14 cm and height 3 cm, and a triangle on top with base 14 cm and height 4 cm. Find the total area.

Diagram NOT accurately drawn

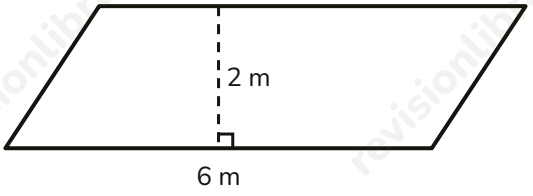


(3)

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3 Priya lays a parallelogram-shaped flower bed with base 6 m and height 2 m. Soil costs £3 per m^2. Calculate the cost to cover the bed with soil.

Diagram NOT accurately drawn



(3)

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Mark scheme · 4.8 Area of Parallelograms, Trapezia and Compound Shapes: 10-minute Pack

Question 1

Area of rectangle = 45 used as area of parallelogram; base = area / height = 45 / 9	**M1**
5 m cao	**A1**

Answer: **5 m**

Question 2

Area parallelogram 14 x 3 = 42 and triangle 1/2 x 14 x 4 = 28 calculated	**M1**
Areas added 42 + 28	**M1**
70 cm² cao	**A1**

Answer: **70 cm^2**

Question 3

Area = 6 x 2 = 12 m² used	**M1**
Multiply area by cost per m^2: 12 x 3	**M1**
£36 cao	**A1**

Answer: **£36**

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