4.2 Geometry: Area, Perimeter and Volume: 10-minute Pack

Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A rectangular sports field measures 12 m by 4.5 m. Calculate the perimeter of the field.

(2)

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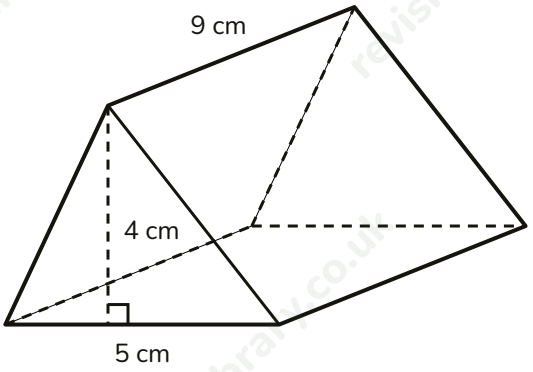
2 A rectangular tile has an area of 24 cm² and a length of 8 cm. Work out the width of the tile.

(2)

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3 A prism has a triangular cross-section with base 5 cm and perpendicular height 4 cm. The length of the prism is 9 cm. Calculate the volume of the prism.

Diagram NOT accurately drawn

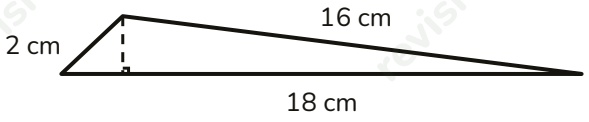


(3)

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4 A triangle has base 18 cm and perpendicular height 2 cm. Its sloping side is 16 cm long. Work out the area of the triangle.

Diagram NOT accurately drawn



(2)

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Mark scheme · 4.2 Geometry: Area, Perimeter and Volume: 10-minute Pack

Question 1

2*(12+4.5) oe, or 12+12+4.5+4.5	M1
33 m cao	A1

Answer: **33 m**

Question 2

24/8 oe	M1
3 cm cao	A1

Answer: **3 cm**

Question 3

0.5*5*4 (=10, cross-sectional area) oe	M1
10*9 oe	M1
90 cm³ cao	A1

Answer: **90 cm^3**

Question 4

1/2 x 18 x 2	M1
18 cm² cao (the sloping side is not needed)	A1

Answer: **18 cm^2**

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