

Name _____

Date _____

Stage 7 End-of-unit test 15

22 questions · 54 marks · calculators are not allowed · allow about 45 minutes

- 1 A rectangle is 13 cm long and 6 cm wide. What is its perimeter, in centimetres? [2]

- 2 A rectangle is 13 cm long and 6 cm wide. What is its area, in square centimetres? [2]

- 3 Two shapes are congruent. That means ... [2]
 - ☐ they have the same area
 - ☐ corresponding sides and angles are equal
 - ☐ they are both rectangles
 - ☐ one is an enlargement of the other
- 4 A rectangle has area 96 cm^2 and length 12 cm. What is its width, in centimetres? [2]

- 5 An L-shape is a 12 cm by 8 cm rectangle with a 5 cm by 3 cm corner removed. What is its area, in square centimetres? [3]

- 6 An L-shape is a 12 cm by 8 cm rectangle with a **rectangular** corner removed. What is its perimeter, in centimetres? [3]

- 7 How many square centimetres are there in 1 square metre? [2]

- 8 How many square metres are there in 3 hectares? [2]

- 9 A field is 400 m by 250 m. What is its area, in hectares? [3]

- 10 A triangle has base 12 cm and perpendicular height 7 cm. What is its area, in square centimetres? [2]

- 11 Which height is used in the area formula for a triangle? [2]
 - ☐ The longest side
 - ☐ Any side
 - ☐ The perpendicular height from the base
 - ☐ The shortest side

- 12** A triangle has area 36 cm^2 and base 9 cm. What is its perpendicular height, in centimetres? [3]
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- 13** A shape is a 10 cm by 5 cm rectangle with a triangle of base 10 cm and height 6 cm on top. What is the total area, in square centimetres? [4]
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- 14** A cuboid is 7 cm by 4 cm by 3 cm. What is its volume, in cubic centimetres? [2]
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- 15** A cube has edges of 6 cm. What is its volume, in cubic centimetres? [2]
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- 16** A cuboid has volume 180 cm^3 , length 6 cm and width 5 cm. What is its height, in centimetres? [3]
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- 17** A tank is 40 cm by 25 cm by 20 cm. How many litres does it hold? [3]
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- 18** How many faces, edges and vertices has a cuboid? [2]
- ☐ 6, 8, 12
 - ☐ 6, 12, 8
 - ☐ 8, 12, 6
 - ☐ 12, 6, 8
- 19** A cuboid is 5 cm by 4 cm by 3 cm. What is its surface area, in square centimetres? [3]
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- 20** A cube has edges of 5 cm. What is its surface area, in square centimetres? [2]
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- 21** An open-topped box is 10 cm long, 6 cm deep and 4 cm tall. What area of card is needed, in square centimetres? [4]
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- 22** Surface area is measured in ... [1]
- ☐ cm
 - ☐ cm^2
 - ☐ cm^3
 - ☐ litres

END OF TEST