Added Value Unit

PRACTICE

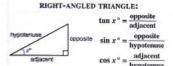
Part One

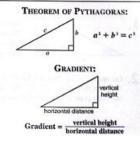
Time allowed: 20 minutes

You may not use a calculator for this part of the test.

- A pizza takeaway sells 500 pizzas a week. 80% of the pizzas have a cheese topping. How many pizzas sold each week have a cheese topping?
- Kevin got a job picking tomatoes and putting them into boxes. Each of the 7 boxes of tomatoes he filled was weighed and the results recorded. 42kg, 41kg, 32kg, 50kg, 39kg, 36kg, 32kg Find the mean weight of a box of tomatoes. Give your answer, in kilograms, correct to 2 decimal places.
- 48 girls applied to go on a canoeing course. of the girls went on the course. How many girls went on the canoeing course?
- 4. A crane lifts a load 5.72 metres off the ground and stops. The load is then lifted a further 13.8 metres higher, before being lowered by 6.47 metres. How far is the load from the ground?
- A calculator costs £7.95. Find the cost of 6 calculators.

FORMULAE LIST: Circumference of a circle: $C = \pi d$ Area of a circle: $A = \pi r^2$ Volume of a triangular prism: V = AhTRIGONOMETRY RATIOS IN A





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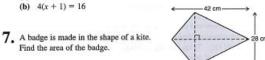


Part Two

Time allowed: 40 minutes

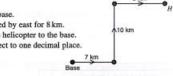
You may use a calculator for this part of the test.

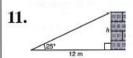




8. A number sequence begins: 3, 7, 11, 15, Term 1 2 3 4

- (a) Write down the next two numbers in this sequence.
- (b) Write down a formula that can be used to find any term in the sequence.
- (c) Use your formula to find the 12th term in the sequence.
- A lorry travels 100 miles in 2 hours 30 minutes. Find its average speed in miles per hour.
- 10. A helicopter flies 7 km east from its base. It then heads north for 10 km, followed by east for 8 km. Calculate the direct distance from the helicopter to the base. Give your answer in kilometres, correct to one decimal place.





Jason is standing 12 m from a haystack. The angle of elevation to the top of the haystack is 25°. Calculate h, the height of the haystack. Give your answer in metres, correct to one decimal place.

- 12. On squared paper, draw and label the x axis from -4 to 6 and the y axis from -4 to 3.
 (a) Plot the points: A(-4, -4), B(-2, 2) and D(4, -4).
 (b) Plot point C so that ABCD is a parallelogram.