Added Value Unit

PRACTICE

Part One

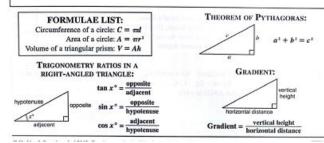
Time allowed: 20 minutes

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

- Jenny is a salesperson.
 Each month Jenny earns a bonus of 3% of the value of goods she sells.
 In July, Jenny sold goods to the value of £4500.
 How much bonus did Jenny earn in July?
- The number of goals scored in matches played by some hockey teams are shown.
 1, 4, 2, 2, 3, 2, 6
 Find the mean number of goals scored.

Find the mean number of goals scored. Give your answer correct to 2 decimal places.

- 3. A box contains 40 chocolates. $\frac{5}{8}$ of the chocolates are soft-centred. How many chocolates in the box are soft-centred?
- 4. Mary has two containers of plain flour. One contains 2.35 kg and the other contains 1.415 kg. Mary uses 3.2 kg of flour to bake a cake. How much flour will Mary have left?
- A tin of paint costs £13.85.
 Find the cost of 3 tins of paint.



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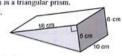


Part Two

Time allowed: 40 minutes

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

- **6.** Solve. (a) 3x-4=x+4 (b) 3(2x+1)=15
- The diagram shows a plastic wedge which is a triangular prism.
 Calculate the volume of the plastic wedge.



8. A number sequence begins: 2, 6, 10, 14, ...

Term	1	2	3	4	5	6
Number	2	6	10	14		

- (a) Write down the next two numbers in this sequence.
- (b) Write a formula that can be used to find any term in the sequence.
- (c) Use your formula to find the 20th term in the sequence.
- Calculate the distance that Chris cycles in 1 hour and 15 minutes at an average speed of 24 kilometres per hour.
- 10. A builder marks out a rectangular building plot, ABCD.

 He checks that the plot is rectangular by measuring the diagonals, AC and BD.

 What length should they be?

 Give your answer in metres, correct to 2 decimal places.
- A cat is on the ground, 25 m from the foot of a house.

 A bird is perched on the gutter of the house, 15 m from the ground.

 Calculate the angle of elevation, a, from the cat to the bird.

 Give your answer correct to the nearest degree.
- 12. On squared paper, draw and label the x axis from -4 to 6 and the y axis from -6 to 3.

 (a) Plot the points: B(-4, -2), C(4, 2) and D(6, -2).
 - (b) Plot point A so that ABCD is a kite.