

MATHEMATICS

Second Year November Assessment

Calculator

NAME

TEACHER

FORM

You must show all your working out.

Section 1 – Mastery

1. Round each of the following numbers to the degree of accuracy stated:

a) 57.248 to 1 dp _____

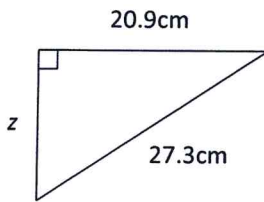
b) 3.9099 to 2 dp _____

c) 84 641 to 2sf _____

d) 0.000 510 256 to 3sf _____

(4 marks)

2. Calculate the length of the side labelled z in the triangle shown. Give your answer to 1 dp.

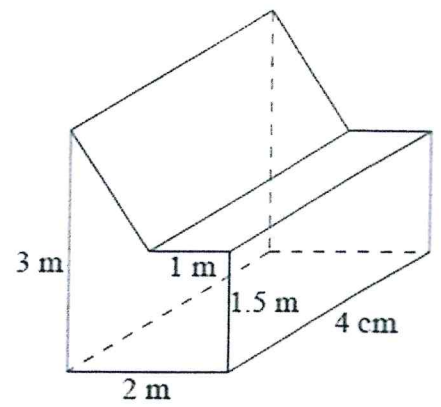


Answer: _____ cm (4 marks)

3. Ben and Jerry share £120 in the ratio 2 : 3. Ben then shares his portion with his daughter in the ratio 3 : 5. Work out how much money Ben's daughter receives.

Answer: £ _____ (4 marks)

4. Draw the plan, front and side elevations of the solid shown, using a scale of 1cm for 1m.



FRONT

(3 marks)

Section 2 – Problem solving

5. Cynthia is packing some apples into boxes. She can pack them into boxes of 24 with none left over, and into boxes of 28, with none left over. What is the smallest number of apples she could have?

Answer:

(4 marks)

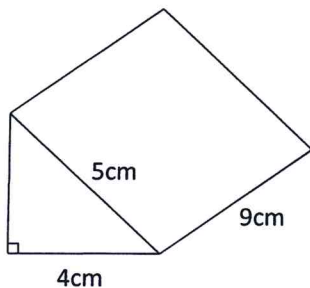
6. A rectangular garden has sides of length 6m and 12m. Harry needs to cross the garden from one corner to the opposite corner. How much further does he walk if he walks round the edges of the garden rather than directly across? Give your answer to 2 d.p.

Answer:

m

(5 marks)

7. Calculate the total surface area of the triangular prism below.



Answer: cm^2 (4 marks)

8. On a map, 5cm represents an actual distance of 60km. What is the scale of the map, in the form 1 : n?

Answer: (3 marks)