

NAME

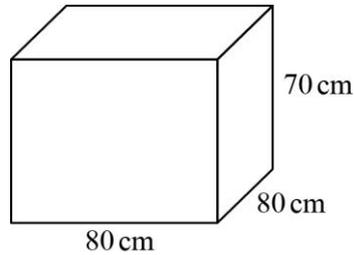
Time:



Calculator Questions



- 1 The diagram shows a water tank in the shape of a cuboid.



The measurements of the cuboid are 80 cm by 80 cm by 70 cm.

- a Work out the volume of the water tank.

(2 mark)

Water is poured into the tank at a rate of 8 litres per minute.

1 litre = 1000 cm³

- b Work out the time it takes to fill the water tank completely.

Give your answer in minutes.

(2 marks)



- 3 Tom travelled 70 km at a speed of 40 km/hour on the first part of his journey.
He travelled the second part of his journey at a speed of 52 km/hour for 1 hour 15 minutes.

- a Find the time taken for the first part of his journey.

(2 marks)

- 3b Find the distance travelled in the second part of his journey.

(2 marks)

3c Find the average speed for the whole journey.

(2 marks)



5 Tia's pay (P) is directly proportional to the number of hours (H) she works.
Tia is paid £9 per hour.

a Write a formula connecting P and H .

(2 marks)

b Use your formula to work out the number of hours Tia worked when she earned £202.50

(2 marks)



7 A force of 60 N is applied to an area of 7.5 m².
Work out the pressure in N/m².

$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

(2 marks)



9 A chair originally costing £90 is reduced to £72
Work out the percentage decrease in the price.

(2 marks)



11 Pedro's hourly rate of pay increases by 6% and is now £10.07
Work out Pedro's pay before the increase.

(3 marks)



- 13 \$6000 is invested for three years at 1.5% per annum compound interest.
Work out the value of the investment at the end of three years.
Give your answer correct to the nearest penny.

(3 marks)



- 15 x is directly proportional to y .
 $x = 60$ when $y = 4$
Calculate the value of x when $y = 19$

(3 marks)

Overall mark	/27
--------------	-----