Baldivis
Secondary College

Assessment type: Response - Skills
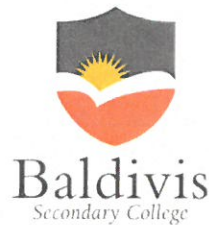
Marks: marks _____ / 28

Conditions:
Time for the task: 30 minutes
In class, calculator permitted

Task weighting:
2% of the school mark for this unit

Question 1:

Find the equivalent units of measure.   (16Marks)

1. 370mm = 0.37 m	9. 375 mL = 0.375 L
2. 1.3t = 1300 kg	10. 3 600 J = 3.6 kJ
3. How many seconds in 3 minutes? $180sec$	11. 1 700 mL = 1.7 L
4. 42cm = 0.42 m	12. Find 10% of $3 800 $= \$380$
5. How many minutes in 150 seconds? $2.5min$	13. 2.25L = 2250 mL
6. 250cm^3 = 250 mL	14. 1 600mm =, 1.6 m
7. One cubic metre = 10000cm^3	15. One square metre = 10000 cm^2
8. Change 1.1 to a percentage 110%	16. 5mm = 0.05 m

Question 2:   **(2 marks)**

An ambulance is travelling along the freeway to an accident at a speed of 120km/h. The accident is 15km from the ambulance station. How long will the ambulance take to travel from the station to the accident?

7.5mins

Question 3:   **(4 Marks)**

Divide $70 into the following ratios;

a) 1:2:4   *÷ 7 = $10*

   $10 : $20 : $40

b) 2:7:1   *÷ 10 = $7.*

   $14 : $49 : $7

Question 4: Jane is driving to Perth from Karratha 1545km away. Her Toyota Hilux uses diesel petrol at a rate of 8.3L per 100 km

    a) How much fuel does Jane use to travel the 1545km trip?   **[2 marks]**

        8.3L : 100km

        128.24L : 1545km

    b) If her fuel tank holds 76L of fuel, how many times will she need to fill up her tank?   **[2 marks]**

        128.24 L ÷ 76L = 1.68

        2 times

    c) Diesel fuel price in northern WA averages at 168c/L. Based on your answer in a) calculate the total cost of petrol for the trip.   **[2 marks]**

        168c : 1 L

        : 128.24.

        21 544.32 c

        ÷ 100

        $ 215.44.