

Foundation Paper 1 2005

Created by
Graduate Bsc (Hons) MathsSci (Open) GIMA

1a. Given $3891 - 261$

$$\begin{array}{r} 3891 \\ - 261 \\ \hline 3630 \end{array}$$

b. Given 5.12×6

$$\begin{array}{r} 5.12 \\ \times 6 \\ \hline 30.72 \\ 1 \end{array}$$

c. $\frac{1}{3}$ of 114

$$3 \overline{)114} \begin{array}{l} 38 \\ 112 \\ \hline 24 \end{array}$$

2. Given 25% of £9.60

Step 1 : Convert 25% to a fraction $\frac{25}{100} = \frac{1}{4}$

Step 2 : $\frac{1}{4}$ of £9.60

$$4 \overline{)9.60} = \text{£}2.40$$

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3.a Given Jim starts run at 1740. In 12-hour clock we simple subtract 12 hours to get 5.40 pm.

b. If he finishes at 2015 then he took:

17.40 → 18.00 (20mins)

18.00 → 20.00 (2 hrs)

20.00 → 20.15 (15mins)

Total time is 2 hrs 35mins

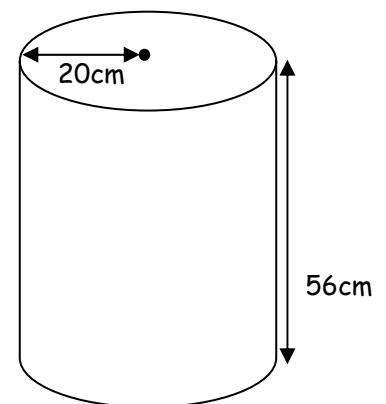
4.a The book has to be returned 2 weeks after the date borrowed. It was borrowed on the 18th November so it must go back on 2nd December.

b. Book borrowed on the 7th January so must be returned 21st January. It was returned on the 30th January and therefore it was 9 days overdue. So if the fine is 5p per day, the fine will be:

$$9 \times 5p = 45p$$

5. Given the diagram the circular table cloth has diameter.

$$56\text{cm} + 20\text{cm} + 20\text{cm} + 56\text{cm} = 152\text{cm}$$



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- 6.a From the diagram the Cathedral is South West of Central Station.
- b. Measuring the distance from Central Station to the Cathedral we get 3.7 cm.
- c. Since the scale of the map is 1 cm to 100 m, the actual distance from Central Station to the Cathedral is:

$$3.7 \times 100 = 370 \text{ m}$$

7. Given the information on the sign posts. The nearest town can be found by:

Bolden

$$45^13$$

$$\frac{-18}{35} \text{ distance from airport is 35km.}$$

Cranley

$$24$$

$$\frac{+18}{42} \text{ distance from the airport is 42km.}$$
$$1$$

Bolden is nearest the airport.