

Foundation Paper 1 2002

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Graduate Bsc (Hons) MathsSci (Open) GIMA

1a. Given $402 + 159 + 73$

$$\begin{array}{r} 12.8 \\ + 0.7 \\ \hline 13.5 \\ \hline 1 \end{array}$$

b. Given 3.65×100

Simply move point 2 places to the right.

$$365.0 \quad \text{or} \quad 365$$

c. $\frac{1}{5}$ of 85

$$5 \overline{) 85} \begin{array}{l} 17 \\ \hline \end{array}$$

2. Given 25% of £484

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

Step 2 : Write £'s to 2 decimal places

$$\frac{1}{4} \text{ of } \pounds 484.00$$

$$4 \overline{) 484.00} = \pounds 121.00 \quad \text{or} \quad \pounds 121$$

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3. Given Kelly has run 3250m of a 5000m race. She still has to run:

$$\begin{array}{r} 5000 \\ - 3250 \\ \hline 1750 \end{array}$$

She still has to run 1750 metres

Car sold for £5799

4. Given video runs for 80 mins and it begins at 7.45pm. It will finish at:

$$\begin{array}{r} 7.45 \\ +0.80 \\ \hline 9.05 \\ 2 \end{array} \quad \text{remember } 45\text{mins} + 80\text{mins} = 120\text{mins} = 2\text{hrs}$$

Video finishes at 9.05pm

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- 5. a** Given the orange juice costs 29p. The cost of 10 is:

$$10 \times 29p = 290p = \text{£}2.90$$

- 5. b** The special pack costs 79p for 3 cartons. Working out the cheapest way to buy 10 cartons we have:

$$4 \times 3 \text{ special packs} = 4 \times 79p = 316p = \text{£}3.16$$

but we could buy

$$\begin{aligned} 3 \times 3 \text{ special packs} + 1 \text{ carton} &= 3 \times 79p + 29p \\ &= 237p + 29p \\ &= 266p \\ &= \text{£}2.66 \end{aligned}$$

Cheapest way to buy 10 cartons is

$$3 \times 3 \text{ special packs} + 1 \text{ carton} = \text{£}2.66$$

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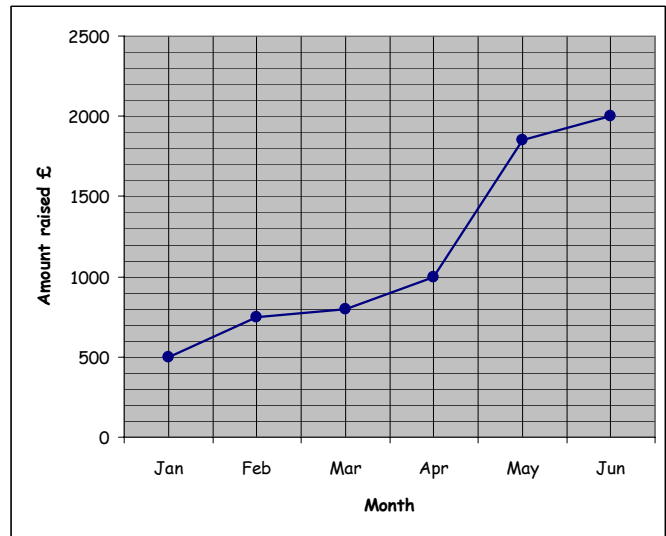
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6.a Given the graph.

By end of Feb £750 was raised.

b. During Feb £750 - £500 = £250 was raised.

c. Steepest part of graph is in May therefore most money was raised then.



7. Since we are told that the profit increase in 1997 - 98 is the same in 1998 - 99. We can work out the profit in 1999 by:

$$\begin{array}{r} \text{Increase profit 1997 - 98} \quad 8700 \\ \quad \quad \quad \quad \quad \quad \quad -2000 \\ \hline \quad \quad \quad \quad \quad \quad \quad \pounds 6700 \end{array}$$

$$\begin{array}{r} \text{Profit 1999} \quad \quad \quad 8700 \\ \quad \quad \quad \quad \quad \quad \quad + 6700 \\ \hline \quad \quad \quad \quad \quad \quad \quad \pounds 15400 \\ \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad 1 \end{array}$$