

Foundation Paper 1 2001

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Graduate Bsc (Hons) MathsSci (Open) GIMA

1)a. Given $17.3 - 4.9$

$$\begin{array}{r} 17.3 \\ - 4.9 \\ \hline 12.4 \end{array}$$

b. Given $\pounds 1.45 \times 8$

$$\begin{array}{r} \pounds 1.45 \\ \times 8 \\ \hline \pounds 11.60 \\ 34 \end{array}$$

c. $\frac{1}{6}$ of 258

$$6 \overline{) 258} \begin{array}{l} 43 \end{array}$$

2. Given $33\frac{1}{3}\%$ of $\pounds 480$

Step 1 : Convert $33\frac{1}{3}\%$ to a fraction $\frac{33\frac{1}{3}}{100} = \frac{1}{3}$

Step 2 : Write \pounds 's to 2 decimal places

$$\frac{1}{3} \text{ of } \pounds 480.00$$

$$\frac{160.00}{3 \overline{) 480.00}} = \pounds 160.00$$

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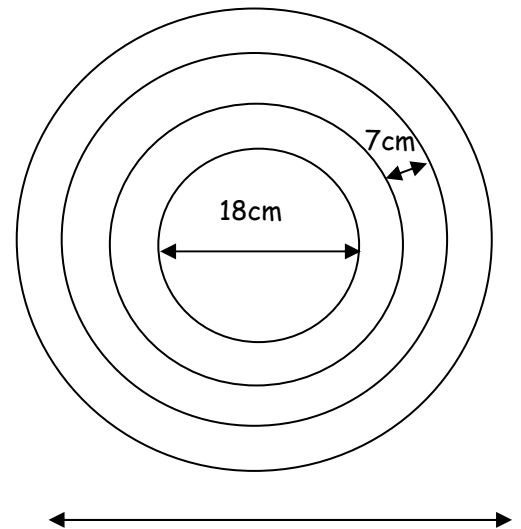
3. Given car cost £4950 and Steve made a profit of £849. He sold for:

$$\begin{array}{r} 4950 \\ + 849 \\ \hline 5799 \\ \hline 1 \end{array}$$

Car sold for £5799

4. Given each ring is 7cm and diameter of the circle is 18cm. Then width is:

$$7+7+7+18+7+7+7 = 60 \text{ cm}$$



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- 5. a** Given the prices for adult and child tickets the total cost for 2 adults and 2 children will be:

$$2 \times \text{£}5 + 2 \times \text{£}3 = \text{£}10 + \text{£}6 = \text{£}16$$

- 5. b** Use the Family Pass for 5 trips the total cost will be:

$$\text{Family Ticket} = \text{£}20$$

$$5 \times 2 \text{ Adult tickets} = \text{£}50$$

$$\text{Total cost} = \text{£}70$$

Using part (a) above normal cost for 5 trips would be:

$$5 \times \text{£}16 = \text{£}80$$

Therefore there is a £10 saving using the family ticket.

- 6. a** Given the alarm clock goes off at 1620 hrs. to put into 12-hour clock we subtract 12 hrs. We get 4.20 pm.

- b.** The difference in time between 0835 hrs and 1620 hrs is:

$$0835 \rightarrow 0900 \text{ (25 mins)}$$

$$0900 \rightarrow 1600 \text{ (7 hrs)}$$

$$1600 \rightarrow 1620 \text{ (20 mins)}$$

$$\text{Total time is } 25\text{mins} + 7\text{hrs} + 20\text{mins} = 7\text{hrs } 45\text{mins}$$

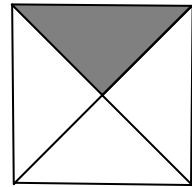
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7.a Given the square tile with length 8 cm. The area of the tile is:

$$\begin{aligned}\text{Area of square tile is } A &= l \times b \\ A &= 8 \times 8 = 64 \text{ cm}^2\end{aligned}$$



b. The shaded area is given by:

$\frac{1}{4}$ of the area of the square

$$\begin{aligned}\text{Area of square is } A &= l \times b \\ A &= 8 \times 8 = 64 \text{ cm}^2 \\ \frac{1}{4} \text{ of } 64 &= 4 \overline{)64} \quad 16 \text{ cm}^2\end{aligned}$$

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8.a Given the table, parking for 10 days in car park B will cost:

$$\begin{aligned} \text{Any period up to a week (7days)} &= \text{£}35 \\ + \text{£}4 \times 3\text{days (10days - 7days)} &= \text{£}12 \end{aligned}$$

Total £47

(b) Parking in car park A for 6 days will cost:

$$\text{£}6 \times 6\text{days} = \text{£}36$$

Parking in car park B for 6 days will cost:

$$\text{Any period up to a week (7days)} = \text{£}35$$

Farrah should choose car park B because it is £1 cheaper.