

Foundation Paper 1 2004

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Graduate Bsc (Hons) MathsSci (Open) GIMA

1)a. Given $402+159+73$

$$\begin{array}{r} 402 \\ 159 \\ + 73 \\ \hline 634 \\ 11 \end{array}$$

b. Given $9.1 - 5.8$

$$\begin{array}{r} {}^8 9.1 \\ -5.8 \\ \hline 3.3 \end{array}$$

c. $\frac{1}{9}$ of 108

$$\begin{array}{r} 12 \\ 9 \overline{)108} \end{array}$$

2. Give 50% of £17

Step 1 : Convert 50% to a fraction $\frac{50}{100} = \frac{1}{2}$

Step 2 : Write £'s to 2 decimal places

$\frac{1}{2}$ of £17.00

$$\begin{array}{r} 8.50 \\ 2 \overline{)17.00} \end{array} = \text{£}8.50$$

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3. Given rate of pay is £4.32 per hour

For 6 hours work we have $6 \times £4.32$

$$\begin{array}{r} 4.32 \\ \times 6 \\ \hline 25.92 \\ 11 \end{array}$$

4. Given dispenser holds 1 litre of soap. To work out how many 4 millilitres we can get out of 1 litre we do the following:

Step 1 : Convert 1 litre into millilitres

1 litre = 1000 millilitres

Step 2 : Divide 4 millilitres into 1000 millilitres

$$\begin{array}{r} 250 \\ 4 \overline{)1000} \end{array} = 250$$

Dispenser can be used 250 before it is empty.

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5. a Given the music magazine is a monthly issue and issue 1 started in January 2004. Then October 2004 will be

Month	Issue
Jan 2004	1
Feb 2004	2
Mar 2004	3
Apr 2004	4
May 2005	5
Jun 2004	6
Jul 2004	7
Oct 2004	8

5. b To find the month and year for issue 16 just continue table.

Month	Issue
Nov 2004	9
Dec 2004	10
Jan 2005	11
Feb 2005	12
Mar 2005	13
Apr 2005	14
May 2005	15
Jun 2005	16

Issue 16 will go on sale June 2005.

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6. Given the motorbike sells for the exactly value between £950 and £870.

Step 1 : Work out difference in values

$$\begin{array}{r} 950 \\ - 870 \\ \hline 80 \end{array}$$

Step 2 : Take $\frac{1}{2}$ the difference 40 and add this to the lowest value.

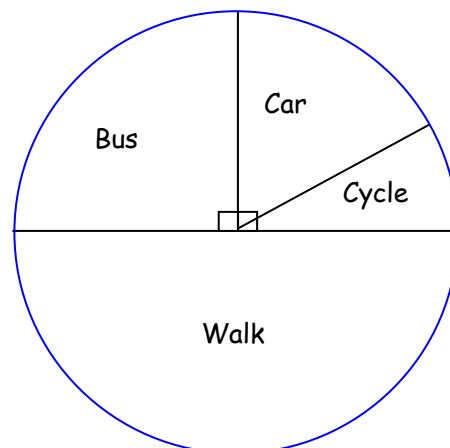
$$\begin{array}{r} 870 \\ + 40 \\ \hline 910 \end{array} \quad \text{They agreed a price of } \pounds 910$$

7. Given total number of pupils is 80 and 6 travelled by bicycle.

From the chart the total of car + bicycle is .

$$\frac{1}{4} \text{ of } 80 = 4 \overline{)20} = 20$$

Therefore the number of pupils who travelled by car is $20 - 6 = 14$ pupils.



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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.