

1. Bob and Mary win £250 on the Premium Bonds.  
They share the money in the ratio 1 : 4

(a) How much money does each person receive?

$$1 + 4 = 5$$

$$250 \div 5 = 50$$

$$\begin{array}{l} \times 50 \swarrow \quad \searrow \times 50 \\ 1 : 4 \\ \hline 50 : 200 \end{array}$$

Answer Bob £ ..... 50 ..... , Mary £ ..... 200 .....

(Total 2 marks)

2. Two singers receive £80 between them.

They divide their pay in the ratio of the number of songs they each sing.

Dan sings one song and Angela sings four songs.  $\rightarrow 1 : 4$

How much does Dan receive?

$$1 + 4 = 5$$

$$80 \div 5 = \pounds 16$$

$$\begin{array}{l} \times 16 \swarrow \quad \searrow \times 16 \\ 1 : 4 \\ \hline 16 : 64 \end{array}$$

Answer £ ..... 16 .....

(Total 2 marks)

3. David has 72 balloons.  
He shares them between his 3 friends in the ratio 4 : 3 : 2

How many balloons are in the largest share?

$$4 + 3 + 2 = 9$$

$$72 \div 9 = 8$$

$$\begin{array}{l} \times 8 \swarrow \quad \searrow \times 8 \\ 4 : 3 : 2 \\ \hline 32 : 24 : 16 \end{array}$$

Answer ..... 32 .....

(Total 2 marks)

4. Brass is made from the metals copper, zinc and tin in the ratio 7 : 3 : 2

How much copper is needed to make 60 kg of brass?

$$7 + 3 + 2 = 12$$

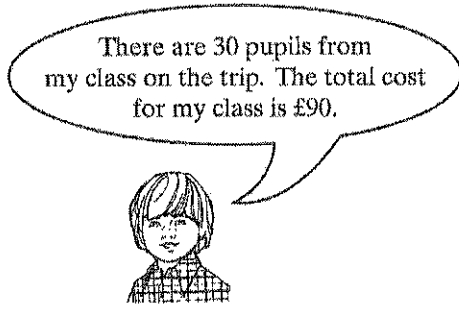
$$60 \div 12 = 5$$

$$\begin{array}{l} \times 5 \swarrow \quad \searrow \times 5 \\ 7 : 3 : 2 \\ \hline 35 : 15 : 10 \end{array}$$

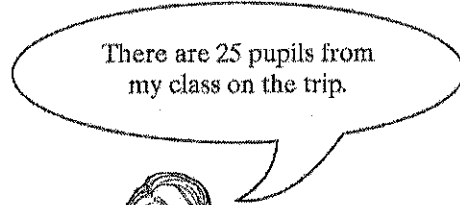
Answer ..... 35 ..... kg

(Total 2 marks)

5. Jim's class and Rosie's class go on a trip to the zoo.  
Each pupil pays the same amount.



Jim



Rosie

What is the total cost for Rosie's class?

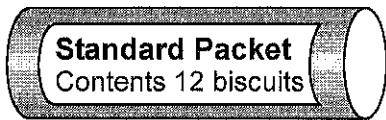
Jim's class  $£90 \div 30 \text{ people} = £3 \text{ each}$

Rosie's class  $25 \times £3 \text{ each} = £75$

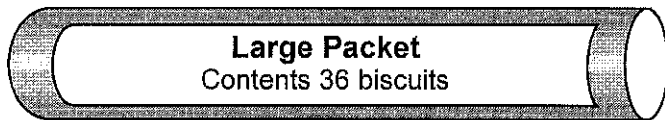
Answer £ .....

(Total 3 marks)

6. Packets of chocolate biscuits are sold in two sizes.



£1.09



£3.17

Which size is the better value for money?  
You **must** show your working.

Stan

$£1.09 \text{ for } 12$   
 $\times 3 \downarrow$   
 $£3.27 \text{ for } 36 \downarrow \times 3$

↑  
cheaper

Answer Large Packet .....

(Total 2 marks)

7. Mr Smith is collecting money for a school trip.  
All pupils pay the same amount.  
He keeps a record of what he collects in this table.

Day	Number of pupils	Amount collected
Monday	16	£48
Tuesday	12	£36
Wednesday	20	£60

$£48 \div 16 = £3 \text{ each}$

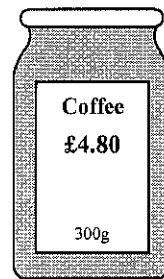
Complete Mr Smith's table.

(Total 3 marks)

8. A supermarket sells jars of coffee of the same brand in two different sizes.

Regular

Large



Which jar gives the better value for money?  
You **must** show your working.

Regular Coffee

£3.00 for 200g  
£1.50 for 100g

Large Coffee

£4.80 for 300g  
£1.60 for 100g

Answer ..... Regular coffee .....

(Total 3 marks)

9. The table shows the amounts needed to make 36 mince pies.

Ingredient	Amount for 36 pies	Amount for 48 pies
Plain Flour	330 g	440g
Lard	75 g	100g
Butter	75 g	100g
Mincemeat	720 g	960g

Calculate the amounts needed to make 48 mince pies.  
Put your answers in the table.

(Total 3 marks)

10. Andy scores 12 goals in 10 football matches.  
Ben scores 21 goals in 15 football matches.

Which player scores the greater number of goals per match?  
You **must** show your working.

Andy 12 goals : 10 matches

24 goals : 20 matches

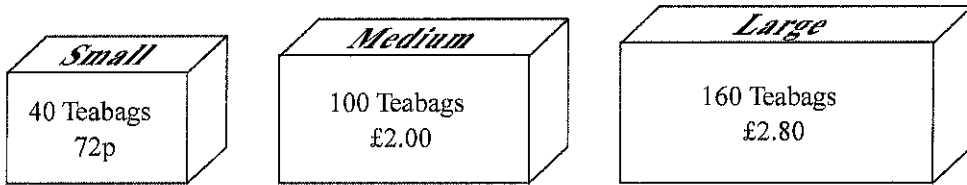
36 goals : 30 matches

Ben 21 goals : 15 matches  
42 goals : 30 matches

Answer ..... Ben .....

(Total 3 marks)

11. A supermarket sells boxes of the same brand of teabags in three different sizes.



Work out the cost of 20 teabags for each size.

$$\begin{aligned} 40 &: 72p \\ \div 2 \downarrow & \\ 20 &: 36p \end{aligned}$$

$$\begin{aligned} 100 &: £2 \\ \div 10 \downarrow & \\ 10 &: £0.2 \\ \times 2 \downarrow & \\ 20 &: 40p \end{aligned}$$

$$\begin{aligned} 160 &: £2.80 \\ \div 8 \downarrow & \\ 20 &: 35p \end{aligned}$$

Answer Small ..... 36 ..... p Medium ..... 40 ..... p Large ..... 35 ..... p

(Total 4 marks)

12. Fiona buys 4.4 kg of grapes for £5.94

How much does Alex pay for 3.6 kg of the same grapes?

$$\begin{aligned} 4.4 \text{ kg} &: £5.94 \\ \div 4.4 \downarrow & \\ 1 \text{ kg} &: ~~£1.35~~ \\ \times 3.6 \downarrow & \\ 3.6 \text{ kg} &: £4.86 \end{aligned}$$

Answer £ ..... 4.86 .....

(Total 3 marks)

13. Four melons cost £4.28

How much will five melons cost?

$$\begin{aligned} 1 \text{ melon} &= £4.28 \div 4 = £1.07 \\ 5 \text{ melons} &= £1.07 \times 5 = £5.35 \end{aligned}$$

Answer £ .....

(Total 3 marks)

14. Petrol costs 88p per litre.

Calculate the price of 1 gallon of petrol.  
Use the conversion 1 gallon = 4.5 litres.

$$\begin{aligned} 1 \text{ gallon} &= 4.5 \text{ litres} \\ 4.5 \times 88p &= £3.96 \end{aligned}$$

Answer £ ..... 3.96 .....

(Total 2 marks)