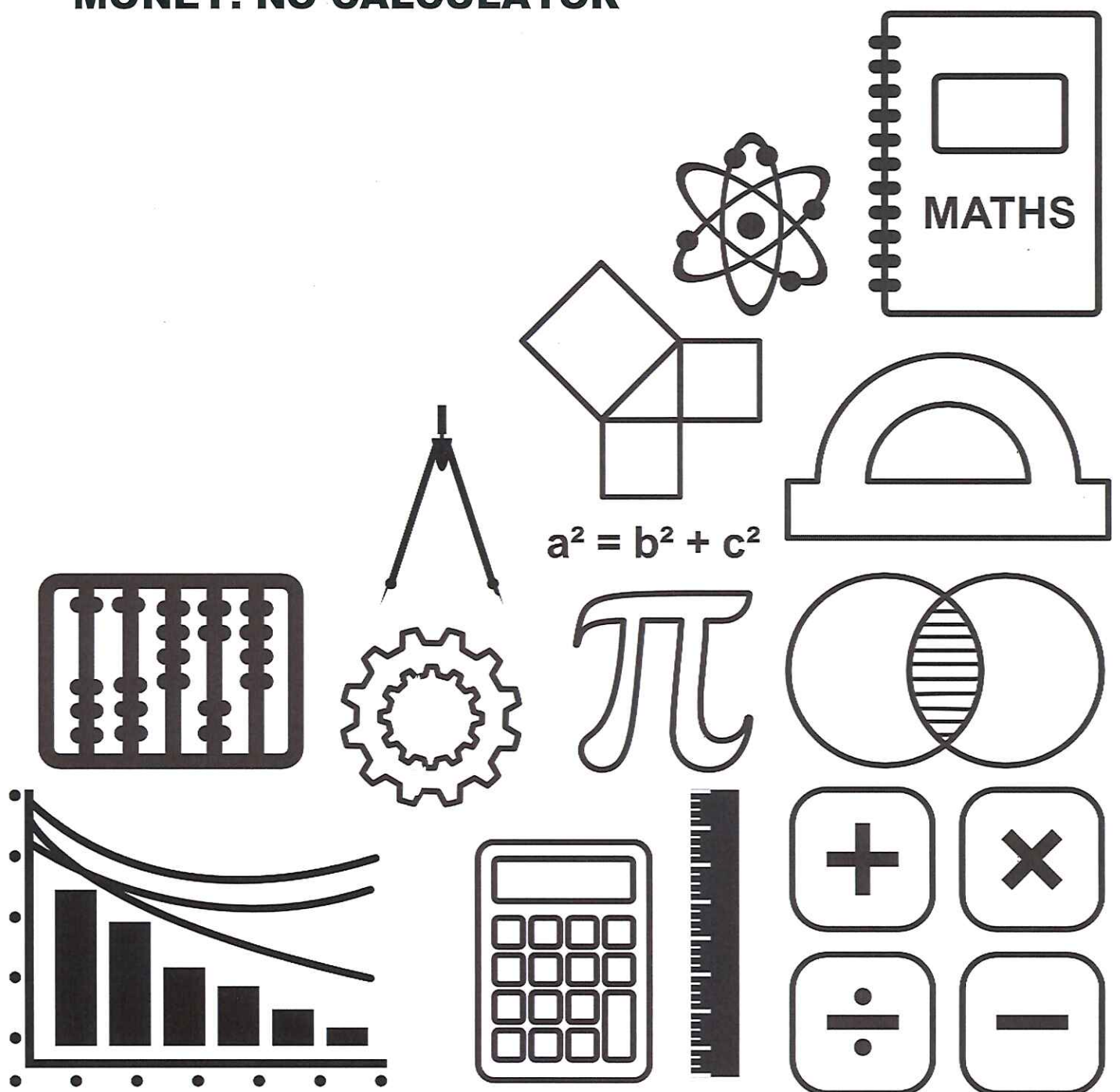


GCSE TOPIC BOOKLET MONEY: NO CALCULATOR

SOLUTIONS



1. (a) Andrew bought four ice cream cones costing 86p each.
He paid using a £5 note.
How much change should he be given?

$$\begin{array}{r} 86 \\ \times 4 \\ \hline 344 \\ \hline \end{array}$$

$$\begin{array}{r} 5.00 \\ - 3.44 \\ \hline 1.56 \\ \hline \end{array}$$

£1.56

[2]

- (b) Mary bought a tennis ball costing £2.25 and a shuttlecock costing £1.28.
She used a £10 note to pay for these items.
How much change should Mary be given?

$$\begin{array}{r} 2.25 \\ + 1.28 \\ \hline 3.53 \\ \hline \end{array}$$

$$\begin{array}{r} 10.00 \\ - 3.53 \\ \hline 6.47 \\ \hline \end{array}$$

£6.47

[2]

- (c) Sam bought eight trees for his garden.
Each tree cost £17.
Calculate the total cost of the trees.

$$\begin{array}{r} 17 \\ \times 8 \\ \hline 136 \\ \hline \end{array}$$

£136

[2]

2. Sian buys 8 dinner plates.
The total cost of the plates is £120.
Calculate the cost of one plate.

$$8 \overline{) 120}$$

£15

[2]

3.

LEAKS THE PLUMBERS LOW RATES FOR REPAIRS

$$\text{COST} = \text{NUMBER OF HOURS} \times \text{£5} + \text{CALL OUT CHARGE}$$

- (a) Sally has a leaking water pipe. She contacts LEAKS to have the pipe repaired. Find the COST if it took 4 hours to repair the pipe and the CALL OUT CHARGE was £25.

$$\begin{aligned} \text{Cost} &= 4 \times \text{£5} + \text{£25} \\ &= \text{£20} + \text{£25} = \text{£45} \end{aligned}$$

[2]

- (b) Simon had a problem with his water tank. He asked LEAKS to repair the tank. The COST was £75 and the CALL OUT CHARGE was £25. Find the NUMBER OF HOURS for which Simon was charged.

$$\text{£75} = \text{number of hours} \times \text{£5} + \text{£25}$$

$$\text{£50} = \text{number of hours} \times \text{£5}$$

$$\text{number of hours} = \frac{\text{£50}}{\text{£5}} = \text{10 hours}$$

[2]

4. How many shirts at £4.90 each can be bought with £20?

$$\text{estimate} \downarrow = \text{£5} \times 4 = \text{£20}$$

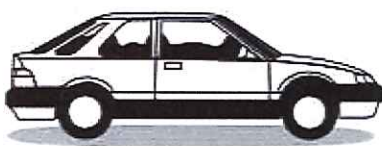
4 shirts

(no need to work out the total cost of the 4 shirts)

[2]

5.

ABBEY CAR HIRE



COST = NUMBER OF DAYS × £40 + £50

John hires a car from Abbey Car Hire.

Find the COST when the NUMBER OF DAYS for which John hires the car is 5.

$$\begin{aligned} \text{Cost} &= 5 \times £40 + £50 \\ &= £200 + £50 = \underline{\underline{£250}} \end{aligned}$$

[2]

6. Tom buys four oranges.

Each orange costs 72p.

Tom pays using a £10 note.

How much change should Tom be given?

$$\begin{array}{r} 72 \\ \times 4 \\ \hline 288 \end{array} = £2.88$$

[2]

$$\begin{aligned} &£2.88 \quad \text{---} \quad £3 \quad \text{---} \quad £10 \\ &\quad +12p \quad \quad +£7 \quad \quad \underline{\underline{£7.12}} \end{aligned}$$

7. Mary buys a magazine with a £5 note and gets £1.36 change.

Jim buys a different magazine for £3.28.

Whose magazine was more expensive and by how much?

$$\begin{aligned} &£1.36 \quad \text{---} \quad £2 \quad \text{---} \quad £5 \quad \quad \underline{\underline{£3.64}} \end{aligned}$$

$$\begin{array}{r} 51 \\ 3.64 \\ - 3.28 \\ \hline 36p \end{array}$$

Mary's magazine was 36p more expensive.

[3]

8. Each of 76 pupils paid £54 to go on a school trip.
Calculate the total amount paid by the pupils.

$$\begin{array}{r}
 76 \\
 \times 54 \\
 \hline
 304 \quad (\times 4) \\
 3800 \quad (\times 50) \\
 \hline
 4104
 \end{array}$$

£4104

[3]

9. John has a £10 note.
Loaves of bread cost £1.50 each.
He buys as many loaves of bread as he can.
How much money will he have left over?

guess 6

$$\begin{array}{r}
 1.50 \\
 \times 6 \\
 \hline
 9.00 \\
 3
 \end{array}$$

6 loaves with £1 left over

[3]

10. Cherie buys 4 magazines each costing 70p and pays with a £5 note.
How much change should Cherie be given?

$$\begin{array}{r}
 70 \\
 \times 4 \\
 \hline
 280
 \end{array}$$

£2.80 ^{20p} £3 ^{£2} £5

£2.20

[2]

11. Theo goes to a cafe and buys a cup of coffee, a sandwich and a cake. How much change does he get from £10?

Cafe	
Tea	92p
Coffee	£1.24
Sandwich	£2.65
Cake	86p

$$\begin{array}{r}
 124 \\
 + 265 \\
 \hline
 86 \\
 \hline
 475p \\
 \hline
 11
 \end{array}$$

$£4.75$ $25p$ $£5$ $£10$
 $£5.25$

[3]

12. Janet buys a newspaper costing 34p and a magazine costing £1.27. How much change should she get from £5?

$34p$ $£3$
 $£1.61$ $£2$ $£5$
 $£3.39$

$$\begin{array}{r}
 127 \\
 + 34 \\
 \hline
 161p \\
 \hline
 1
 \end{array}$$

[2]

13. Find the cost of 74 tickets each costing £37.

$$\begin{array}{r}
 74 \\
 \times 37 \\
 \hline
 518 \quad (\times 7) \\
 2220 \quad (\times 30) \\
 \hline
 2738
 \end{array}$$

$£2738$

[3]

14. Mr. Roberts is going to be in Hong Kong for 4 nights.
He finds two suitable hotels on the internet.

Hotel Gelton 3*	Bed and breakfast £80 per night per person
Hotel Bear 3*	Dinner, bed and breakfast £107 per night per person
*****Special Offer*****	
Stay 3 nights and your fourth night is free!	

Which hotel should Mr. Roberts choose? You must show your working and give a reason for your answer.

Hotel Gelton $4 \times £80 = £320$

Hotel Bear. 4 for 3, so
$$\begin{array}{r} 107 \\ \times 3 \\ \hline 321 \\ 2 \end{array}$$
 £321

Mr Roberts should choose Hotel Bear, because for the extra £1 he will get dinner every night.

[4]

15. Julie has a £5 note.
She buys a newspaper for 48p and a magazine costing £2.85.
How much change should she get?

$$\begin{array}{r} 285 \\ + 48 \\ \hline 333 \\ 1 \end{array}$$

67p £1

£3.33 £4 £5

£1.67

[2]