



GCSE Foundation/Higher 03

Number



Mark scheme



30 minutes



27 marks

Fractions

M1. $\frac{1}{3}$ or $\frac{3}{4}$ or $1 - \frac{2}{3}$ or $1 - \frac{1}{4}$ seen
oe

M1

$$18 = \frac{3}{4} \quad \text{or} \quad \frac{1}{4} = 6 \quad \text{or} \quad \frac{1}{3} = 6$$

$$\text{or} \quad \frac{1}{2} \quad \text{or} \quad 6 \times 3 (= 18)$$

$$\text{or} \quad \frac{2}{3} \times \frac{3}{4} \quad \text{seen}$$

M1 dep

$$6 \times 4 \quad \text{or} \quad \frac{\text{their } 18}{3} \times 4 \quad \text{or} \quad 18 + 6$$

Calculation leading to a final answer of 24

M1 dep

24

SC1 for 11 12

SC2 for 72

$$(\pounds)6 = \frac{2}{3} \rightarrow (\pounds)9$$

$$\text{then } \frac{9 \times 4}{3} = 12 \quad \text{is SC3}$$

A1

[3]

M2. (a) $\frac{3}{10}$

B1 equivalent fraction to $\frac{3}{10}$ eg $\frac{5}{50}$

or

B1 $\frac{n}{50}$ with its correct simplest form

B2

(b) At least one product attempted or one correct value (not 0 or 8)

$$0 \times 13$$

$$1 \times 8$$

$$2 \times 6 (= 12)$$

$$3 \times 8 (= 24)$$

$$4 \times 15 (= 60)$$

M1

5 products attempted and added
Allow 4 products if 0 not shown

M1 dep

104

oe eg 4 more
SC2 117

A1

[5]

M3. (Billie = £)8

$$\left(\frac{2}{3}\right)8$$

B1

their $8 \div 2 \times 3 (= 12)$
oe

M1

their $12 \div 4 \times 5$
oe

M1

15

A1

[4]

M4. 7224

B1

$$\frac{2}{3} \times 11\,100 \text{ or } \frac{3}{4} \times 9600$$

oe
 $11\,100 \div 3 = 3700$
 $11\,100 - \text{their } 3700$
or
 $9600 \div 4 = 2400$
 $9600 - \text{their } 2400$
Allow 0.33 or better or [0.66, 0.67] for decimals

M1

7400

A1

7200

A1

Offer 3

Correct ft decision if M1 awarded

A1 ft

[5]

M5. (a) Circles $\frac{19}{20}$
Any indication

B1

(b) Circles $-\frac{1}{8}$
Any indication

B1

[2]

M6. (a) $300 \div 3 \times 2$ or $\frac{2}{3} \times 300$

or $\frac{2}{3}$ of 300 or $\frac{2}{3} \times \frac{200}{300}$

$300 - \frac{1}{3}$ of 300

$300 \div 3$ or $\frac{1}{3}$ of 300 or $\frac{1}{3} \times 300$ score B1

B2

(b) $100 \div 5$ or 20

oe $\frac{1}{3} \times \frac{1}{5}$ earns M1

M1

(Their 80) $\div 2$ or 40

$\frac{1}{3} \times \frac{4}{5} \times \frac{1}{2}$ earns M1

M1

60

A1

[5]

M7. (a) $\frac{2}{20}$ or $\frac{1}{10}$
 oe
 Accept 0.1

B1

(b) $\frac{15}{20} - \frac{4}{20}$
 Either

M1

$= \frac{11}{20}$
 oe
 $0.75 - 0.2$
 $= 0.55$

M1
A1

A1

[3]

