

**M1.**

- (a) Yes, gives correct answer as inverse operations and order does not matter  
oe

**B1**

- (b) No, does not work, inverse operations not in correct order  
oe

**B1****[2]****M2.(a)** 10 (ice creams) and 7 (lollies) chosen**B1**their  $10 \times 1.2(0)$  or  $12(.00)$ or their  $10 \times 120$  or  $1200$ **and**their  $7 \times 0.8(0)$  or  $5.6(0)$ or their  $7 \times 80$  or  $560$ *17.6 or 1760 or £17.60p implies B1 M1***M1**

17.60

*Strand (i)**ft correct answer with correct money notation for their 10 and their 7**SC2 16.40**SC1 16.4 or 12 or 5.60***Q1ft**

- (b)  $10 + 7 + 15 + 18$  or  $50$   
*Allow 1 error*

**M1**

80 – their 50 or 30

*Bars that total 30 or 80 – their 50*

**M1dep**

Bars for 14 ice creams and 16 lollies

*SC1 Bars with two more lollies than ice creams with no M marks awarded*

**A1**

**[6]**

**M3.(a)** 15 and 10 in either order

*B1 15 with a number less than or equal to 15*

**or**

*two numbers with a total of 25*

**B2**

(b) 17 and 11 in either order

*B1 two numbers giving a range of 6 for set C*

**or**

*two numbers with a total of 28*

**B2**

**[4]**

**M4.(a)** Yes she's asking people who own dogs so they prefer them

*oe*

*Yes she should ask people who don't own dogs / pets*

**B1**

(b) No preference = 6

**B1**

Cats = Dogs × 2

**B1**

Dogs + Cats + No preference = 30  
8, 16, 6 scores B3

B1  
[4]

M5.5(.00) – 2.6(0) or 2.4(0) or 240  
May be implied

M1

their  $240 \div 80$

or

builds up to their 240 eg  $80 + 80 + 80$  or  $3 \times 80$   
oe

M1

3

*Must see correct method*  
*SC2 Answer only of 3*

A1

### Alternative method

$2.60 + 80$

or

$5(.00) - 80$

M1

$2.60 + 80 + 80 + 80$

or

$5(.00) - 80 - 80 - 80$

M1

3

*Must see correct method  
SC2 Answer only of 3*

A1  
[3]

**M6.**

$$4 \div 4 + 4 \div 4$$

or

$$4 \times 4 \div (4 + 4)$$

or

$$(-4 - 4) \div 4 + 4$$

or

$$4 \div ((4 + 4) \div 4)$$

or

$$(4 \div (4 + 4)) \times 4$$

*Any correct calculation*

B1

$$(4 + 4 + 4) \div 4$$

or

$$(4 \times 4 - 4) \div 4$$

*Any correct calculation*

B1  
[2]

**M7.**

Any three of

$$1 + 2 + 3 + 4 = 10$$

$$1 \times 2 \times 3 + 4 = 10$$

$$1 + 2 + 3 \times 4 = 15$$

$$1 + 2 \times 3 \times 4 = 25$$

*B1 for each*

B3  
[3]

**M8.3** 10p coins

2 20p coins

5 50p coins

*B2 any 10 coins totalling £3.20**eg 6 × 20p, 4 × 50p**eg 4 × 5p, 6 × 50p**or any combination of 50p, 20p and 10p coins totalling £3.20**eg 2 × 10p, 5 × 20p, 4 × 50p**or 30p, 40p and £2.50 on answer lines without correct number of coins seen**B1 any number of coins totalling £3.20**eg 2 × 5p, 1 × 10p, 6 × 50p**eg 1 × 10p, 3 × 20p, 5 × 50p**or 10 coins using any combination of 50p, 20p and 10p coins totalling**£3.00 or £3.10 or £3.30 or £3.40**eg 2 × 10p, 3 × 20p, 5 × 50p***B3****Additional Guidance**

10 coins using combination of 10p, 20p and 50p coins totalling £3.00, £3.10, £3.30 or £3.40

1 10p   2 10p   4 10p   1 10p   2 10p   B1

2 20p   3 20p   1 20p   5 20p   4 20p

5 50p   5 50p   5 50p   4 50p   4 50p

**[3]****M9.5 × 24 or 120****M1**

204 – their 120 or 84

**M1dep**

21

A1

**Additional Guidance**(204 – 24) and  $180 \div 4 = 45$  is M0**[3]****M10.(a)**  $2700 \times 8$  or 21 600or  $2700 \times 0.08$ 

or 216

oe

M1

 $5850 - 2700$ 

or 3150

oe

M1

 $(5850 - 2700) \times 5$ or their  $3150 \times 5$ 

or 15750

 $(5850 - 2700) \times 0.05$ or their  $3150 \times 0.05$ 

or 157.5

or digits 3735

*dependent on 2<sup>nd</sup> M1*

M1dep

373.50

373.5 implies M3 Q0

Q1

**Additional Guidance**

373.50p is M1 M1 M1 Q0

(b) 7 (%)

B1

[5]

**M11.(a)** (£) 3.74

B1

**Additional Guidance**

£3.74p

B1

3.74p

B1

374p with £ sign crossed out

B1

374p without £ sign crossed out

B0

(b) 1.99 + 1.7 + 0.55 or 4.24  
oe  
Allow one error

M1

5 – their 4.24 or 0.76  
oe

M1dep

76

£0.76

A1

**Additional Guidance**

Allow a mixture of units for the M marks

76p seen in working, 0.76 on answer line

M1M1A1

**[4]****M12.**

(a)  $(17 + 3) \div 4$   
 $20 \div 4$

M1

5

SC1 17.75

A1

(b) 18, 19, 20

*B2 All 3 correct answers with extra incorrect answers  
 or any 2 correct answers with or without  
 extra incorrect answers*

*B1 1 correct answer with or without extra incorrect answers  
 or any correct reverse trial starting with a number between 5  
 and 6*

B3

**[5]**

**M13.**  $100 - (27 + 41)$  oe

M1

32

A1

Correct minimum numbers for their 32

*ft from their 32*

*B1 buys beads to make each number of each colour equal*

$R = 14, B = 0, G = 9$  scores 4 marks



or two correct minimum numbers for their 32

SC2  $R = 14$  and  $B = 0$

SC1  $R = 14$

B2ft

[4]

**M14.**

(a)  $1 + 2 \times 4$  or  $1 + 4 \times 2$  or  $4 + 1 \times 5$  or  $4 + 5 \times 1$  or  $5 + 4 \times 1$  or  $5 + 1 \times 4$

B1

(b)  $4 \times 3 - 1 \times 5$  or  $4 \times 3 - 5 \times 1$

or  $5 \times 3 - 2 \times 4$  or  $5 \times 3 - 4 \times 2$

3 is placed in question so other answers are irrelevant

*B1 for any correct expression i.e. not using given numbers or repetition or correct expression but with '3' moved from position.*

e.g.  $3 \times 5 - 1 \times 8$

$3 \times 3 - 1 \times 2$

Negative answer B0

B2

(c)  $3 + 4 + 5 = 12$

*B1 for any correct expression using 'incorrect' digits e.g. 0 or repeating digits*

e.g.  $1 + 4 + 5 = 10$

B2

[5]

**M15.**  $3 \times 10^2$  or 100 seen

M1

300

SC1 900

A1

[2]

