

**M1.** $ab$  or  $-12$ 

and

 $-3$ ,  $8$  and  $-12$  seenB1 for  $\left(\frac{b}{a}=\right)$   $-3$  or  $(a - b =) 8$ or  $(ab =) -12$ 

B2

[2]

**M2.**(a)  $41$  or  $29$  used

M1

 $12$ 

A1

(b)  $59$  or  $50$  used

M1

 $109$ 

A1

[4]

**M3.**(a) Box A  $\rightarrow p(3) = \frac{1}{6}$  andBox B  $\rightarrow p(3) = \frac{1}{3}$  andBox C  $\rightarrow p(3) = \frac{2}{5}$  and

Box D  $\rightarrow p(3) = \frac{2}{4}$  or  $\frac{1}{2}$

*Allow one incorrect probability*

**M1**

(Box) D and all probabilities correct

**A1**

(b) (Box) A and (Box) B

**B1**

**[3]**

**M4.(a)** 35 and 65

**B1**

(b) 34 and 76

**B1**

(c) 76

**B1**

(d) 21

**B1**

**[4]**

**M5.** Correct order **and** all four correct

values seen in same format

3, 3.15, 3.25, 3.5(0)

or 3,  $3\frac{15}{100}$ ,  $3\frac{25}{100}$ ,  $3\frac{50}{100}$

or 3,  $3\frac{3}{20}$ ,  $3\frac{1}{4}$ ,  $3\frac{1}{2}$

or 300(%), 315(%), 325(%), 350(%)

or  $\sqrt{9}$ , 3.15,  $\frac{13}{4}$ ,  $3\frac{1}{2}$  after values

seen in same format

oe

*B2 all four correct values in same format*

or

*three correct values in same format and correct order for their values*

*B1 three correct values in same format*

SC1  $\sqrt{9}$ , 3.15,  $\frac{13}{4}$ ,  $3\frac{1}{2}$  with no working

B3

[3]

**M6.(a)** 431

B1

(b) 388

B1

(c) 293 and 107

*In any order*

B1

(d) 255 and 205

*Must be in order*

B1

[4]

**M7.(a)** London

Accept  $-4.9$  ( $^{\circ}\text{C}$ )

B1

(b) 10.5

Accept  $-10.5$

B1

(c)  $-5.9$

B1

[3]

**M8.**

(a)  $15.6 \div 4$  or  $156 \div 40$

or  

$$\frac{156}{100} \times \frac{100}{40}$$

Correctly multiplying both numbers by the same number so that 0.4 becomes an integer

M1

3.9

oe  
 SC1 digits 39

A1

(b) Any decimal greater than  $0.\dot{6}\dot{3}$  and less than  $0.\dot{7}$

B1 Any fraction or percentage between  $\frac{7}{11}$  and  $\frac{7}{9}$  (eg  $\frac{7}{10}$  or 70%) or

Correctly evaluates  $\frac{7}{11}$  to 0.63... or  $\frac{7}{9}$  to 0.77...

B2

(c) Any correct fraction

eg  $\frac{83}{200}, \frac{415}{1000}, \frac{41}{99}, \frac{41}{98}, \frac{42}{101}, \frac{42}{102}$

B1  $\frac{41.5}{100}$

or

any 'correct' fraction with non-integer numerator and/or denominator

or

any decimal between 41% and 42%

B2

[6]

**M9.(a)**  $5x < 6 + 2$

or  $5x < 8$

$\frac{8}{5}$  or 1.6 seen

oe

M1

$x < \frac{8}{5}$

oe

A1

### Additional Guidance

Sight of 1.6 or  $\frac{8}{5}$  score M1

(b) 2, 3, 4, 5, 6

*B1 for one extra or one missing*

*eg*

2, 3, 4, 5

1, 2, 3, 4, 5, 6

2, 3, 4, 5, 6, 7

2, 3, 5, 6

B2

[4]

**M10.(a)** -3

*Accept Thu or Thursday*

**B1**

(b) 4

*Accept -4*

**B1**

(c) -5

**B1**

**[3]**

**M11.(a)** 3.6

**B1**

(b) 0.325 0.5 0.62

**B1**

(c)  $\frac{4}{5}$  and 80%

*B1 for one correct (and one incorrect) or for two correct and one incorrect*

*Any indication*

**B2**

**[4]**

**M12.0.207** 27%  $\frac{56}{200}$

*oe any format*

*B1 for 0.27 or  $\frac{27}{100}$  or  $\frac{54}{200}$*

*or 20.7(%) or  $\frac{20.7}{100}$  or  $\frac{41.4}{200}$*

or 0.28 or 28(%) or  $\frac{28}{100}$

B2  
[2]

**M13.(a)** Six thousand two hundred (and) seventeen  
*Condone spelling mistakes if intention clear*

B1

(b) 6220

B1

(c) 1267

B1

(d) 2761

B1  
[4]

**M14.(a)** 2678

B1

(b) 63

B1

(c) 279

B1  
[3]

**M15.(a)** (Match) 4 or 43 685

B1

(b) 128 or 417 seen

*Allow -128 or -417 seen*

**M1**

(Match) 2 or 19872

*All working must be correct*

*SC1 for 20417 or (Match) 3*

**A1**

(c) 32 473 – 3584

**M1**

28 889

**A1**

29 000

*Rounding to nearest thousand*

*SC1 32 000 and 4000*

*SC1 28 000*

**B1ft**

**[6]**