

**M1.**

800 or 1600 or 200 or 60 or 120 or 100

**M1**

800 or 1600 and  
200 and 60 or  
120 or 100

**M1**

1920 or 1900 or 2000

*SC1 1900 without working  
or 1900 from 1899*

**A1**

**[3]**

**M2.**

32

*B1 4 or 16 or 0.5*

**B2**

**[2]**

**M3.(a)** 26 ÷ 4 or 6.5

or  $26 \times 20 \times \frac{1}{4}$  or 130

**M1**

26 – their 6.5

or  $26 \div 4 \times 3$

or  $(520 - 130) \div 20$  or  $390 \div 20$

or  $(520 - \text{their } 130) \div 20$

or their  $390 \div 20$

*oe*

**M1dep**

19.5

**A1**

(b) Any trial with correct factors giving 168 except  $1 \times 168$

or any correctly evaluated product

such that  $10 \leq \text{rows} \leq 13$  and

$10 \leq \text{seats} \leq 16$

*2 (x) 84 or  $168 \div 2 = 84$*

*3 (x) 56 or  $168 \div 3 = 56$*

*4 (x) 42 or  $168 \div 4 = 42$*

*6 (x) 28 or  $168 \div 6 = 28$*

*7 (x) 24 or  $168 \div 7 = 24$*

*8 (x) 21 or  $168 \div 8 = 21$*

*12 (x) 14 or  $168 \div 12 = 14$*

*oe*

**M1**

A different trial with correct factors giving 168 except  $1 \times 168$

or a different correctly evaluated

product such that  $10 \leq \text{rows} \leq 13$  and

$10 \leq \text{seats} \leq 16$

**M1dep**

12 rows

*SC2 for 12 seats and 14 rows*

14 seats

*SC2 for 12 and 14 as final working*

**A1**

**[6]**

**M4.**

(a) 2.17158...

**B1**

(b) 2.2

*ft their answer to (a)*

**B1ft**

**[2]**

**M5.(a)** Subtracting two amounts with one correct

$$83 - 57.7$$

or

83 and 57.7 chosen

$$57.7 + 25.3 = 83$$

**M1**

25.3

*Condone 25 300 000*

**A1**

(b)  $0.21 \times$  their 126 200

*oe*

*Condone any attempt to incorporate the million*

*Digits 26 502 imply M1*

**M1**

26 502

*Condone 26 502 000 000*

*SC1 99 698*

**A1**

**Additional Guidance**

Allow the method for 21% of any value from table (or misread)

Possible answers are 17.43, 14.07, 12.117, 11 256, 11 739

Must be using correct value for full marks

Mark the **whole** method so further working will not score (except for those who misread and work out 21% off – see SC1)

(c)  $36\,600\,000\,000 \div 29\,300\,000$

or

$36\,600$  (million)  $\div$   $29.3$  (million)

*Digits 1249... or 125... imply M1*

**M1**

1249. ...

*May be implied by 1250*

**A1**

1250

*ft any answer correctly rounded to the nearest 10*

**B1ft**

**[7]**

**M6.100** seen

**M1**

20

**A1**

**[2]**

**M7.10** or 40 used as an approximation

**M1**

400 or 410

**A1**

**[2]**

**M8.** Sight of 20, 0.5, 10 or 2

M1

$$\frac{20 \times 0.5}{2}$$

oe  $\frac{10}{2}$  or  $10 \times 0.5$  or  $20 \times 0.25$

M1

5

A1

[3]

**M9.** Attempt to count squares  
or any area calculation e.g.  $4 \times 7$

*Evidence of counting areas e.g. dots or numbers in shaded squares*

M1

[22, 27]

*A1 for [19, 22) or (27, 30]*

A2

[3]

**M10.** 2.2 pounds = 1000 grams seen or implied

*May be implied from working*  
 $1 \div 2.2 (= 0.45 \text{ kg}) (= 1 \text{ pound})$

M1

(1 pound =)  $1000 \div 2.2$   
(= 454 ... grams)

*(1 gram =)  $2.2 \div 1000 (= 0.0022 \text{ pound})$*

or  $1 \div 2.2 \times 1000$

*$1 \div 2.2 \times 0.5 (= 0.227 \dots \text{ grams})$*

[454, 455] or 450

*[0.227, 0.2275] or 0.225 or 0.230*

**M1**

$\frac{1}{2}$  pound  $\Rightarrow 1000 \div 2.2 \div 2$

*100 grams =  $2.2 \div 1000 \times 100$   
(= 0.22 pounds)*

(= 227.2 ... grams)

*or 200 grams =  $2.2 \div 1000 \times 200$ (= 0.44 pounds)*

[227, 227.5] or 225 or 230

*or 250 grams =  $2.2 \div 1000 \times 250$   
(= 0.55 pounds)*

*or 500 grams =  $2.2 \div 1000 \times 500$   
(= 1.1 pounds)*

**M1**

[227, 227.5] or 225 or 230 and 250 g stated

*0.55 (pounds) and 250 g stated 0.44  
(pounds) and 250 g stated SC3 for  
e.g. 0.227 and 250 g stated*

**A1**

### **Alternative method**

2 pounds = 1000 grams seen or implied

*May be implied from working*

*$1 \div 2$  (= 0.5 kg) (= 1 pound)*

**M1**

(1 pound  $\Rightarrow 1000 \div 2$   
(= 500 grams)

*(1 gram  $\Rightarrow 2 \div 1000$  (= 0.002 pound)*

or  $1 \div 2 \times 1000$   
(= 500 grams)

*$1 \div 2 \times 0.5$  (= 0.25 grams)*

**M1**

$\frac{1}{2}$  pound =)  $1000 \div 2 \div 2$   
 (= 250 grams)

*100 grams =  $2 \div 1000 \times 100$  (= 0.2 pounds)  
 or 200 grams =  $2 \div 1000 \times 200$  (= 0.4 pounds)  
 or 250 grams =  $2 \div 1000 \times 250$  (= 0.5 pounds)  
 or 500 grams =  $2 \div 1000 \times 500$  (= 1 pound)*

M1

250 g stated

*SC3 for e.g. 0.25 and 250 g stated*

A1

[4]

M11.  $\frac{40 \times 200}{80}$

*M1 for any two shown in the appropriate calculation  
 M1 for  $41 \approx 40$  **and**  $198 \approx 200$  **and**  $77 \approx 80$  clearly stated if  
 not used in a calculation*

M1

100

*Correct answer only is M1A1 but must use correct  
 approximations if working is seen*

A1

[2]

M12.

(a) 1.4

*oe*

B1

(b) 1.26

B1

[2]

**M13.**

(a) 28 000

*Allow 28 thousand*

**B1**

(b) 28 400

**B1**

(c) 5.30 + 1 h 45 min (= 7.15)

*oe*

*1 h 45 min + 3 h 30 min (= 5 h 15 min)*

**or**

*105 min + 210 min (= 315 min)*

**M1**

their 7.15 + 3 h 30 min

*5.30 + their 5 h 15 min*

**M1**

10.45

*oe*

**A1**

Correct decision for their 10.45

*Strand (iii) Must score at least M1*

*SC1 10.05*

**Q1ft**

**Alternative 1**

10.00 – 3 h 30 min (= 6.30)

*oe*

*1 h 45 min + 3 h 30 min (= 5 h 15 min)*

**or**

*105 min + 210 min (= 315 min)*

**M1**

Their 6.30 – 1 h 45 min

*10.00 – their 5 h 15 min*

**M1**

4.45

*oe*

**A1**

Correct decision for their 4.45

*Strand (iii) Must score at least M1*



SC1 10.05

Q1ft

**Alternative 2**

5.30 + 3 h 30 min (= 9.00)

M1

their 9.00 + 1 h 45 min

*10.00 – their 9.00*

M1

10.45

*1 hour (and 1 h 45 min)*

A1

Correct decision for

their 10.45 **or**

their 1 hour (and 1 h 45 min)

*Strand (iii) Must score at least M1*

SC1 10.05

Q1ft

**Alternative 3**

10.00 – 5.30 (= 4 h 30 min)

M1

1 h 45 min + 3 h 30 min

M1

5h 15 min **and** 4 h 30 min

A1

Correct decision for their 5h 15 min and their 4 h 30 min

*Strand (iii) Must score at least M1*

SC1 10.05

Q1ft

**Use of incorrect decimal times** (1.45 and 3.3). Eg,

5.3 + 1.45 + 3.3 scores M0M0A0Q0

5.3 + 1.45 + 3.3 = 10.05 scores SC1

5.3 + 1.45 → 6.75 + 3.5 = 10.25 scores M0M1A0Q0

**Use of correct decimal times** (1.75 and 3.5). Eg,

5.5 + 1.75 + 3.5 = 10.75 and No scores M1M1A0Q1

5.5 + 1.75 + 3.5 = 10.75 → 10.45 scores M1M1A1Q0

[6]

**M14.(a)** 300 or 600 or 50 or 100 or 20

**M1**

300 or 600

and

50 or 100

and

20

**M1**

720

*SC2 480 SC2 860 SC2 719 SC1 any  
table value rounded to 1sf SC1 715  
SC1 720 without M1 awarded*

**A1**

(b)  $(349 + 349 + 59 + 59 + 39 \text{ or } 855) - (299 + 299 + 49 + 49 + 19 \text{ or } 715 \text{ or their incorrect total of exact values for July in part(a)})$

**M1**

140

*ft 855 – their incorrect total of exact values in part(a)*

**A1ft**

**Alternative Method**  $2 \times 50 + 2 \times$

$10 + 20 \text{ or } 350 + 350 + 60 + 60 + 40$

– their 720

**M1**

140

*ft 860 – their 720 from rounding in part(a)*

**A1ft**  
**[5]**

**M15.** 30 or 5

*Allow 30.0 or 5.0*

**M1**

150

*Allow [145,156], but not 153.92 rounded.*

**A1**  
**[2]**

**M16.** Any two numbers approximated

*ie 400, 402, 403, 2, 39 or 40*

**M1**

All three numbers approximated or a calculation using two approximated values

eg  $\frac{402.5}{78}$

**M1**

5

*must come from  $\frac{400}{2 \times 40}$*

**A1**  
**[3]**