

# PRACTICE PAPERS



*Rewarding Learning*

**General Certificate of Secondary Education  
2020**

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## **Mathematics**

Unit M6 Paper 1

**(Non-calculator)**

Foundation Tier

**PRACTICE**

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**MARK  
SCHEME**

- 1** (a) impossible A1  
 (b) (very) likely A1  
 (c) evens A1
- 2** (a) multiply by 2 A1  
 (b) 36 A1  
 (c)  $9 + 18 = 27$  **or**  $72 + 144 = 216$  A1
- 3**  $186 - 6 = 180$  ,  $180 \div 2 = 90$  MA1  
 $90 - 6 = 84$  ,  $84 \div 2 = 42$  MA1
- 4** (a)  $\frac{20}{60}$  or  $\frac{1}{3}$  A1  
 (b)  $\frac{40}{60}$  or  $\frac{2}{3}$  A1  
 (c)  $\frac{18}{60}$  or  $\frac{3}{10}$  A1  
 (d)  $\frac{37}{60}$  A1
- 5** 1hr 20min = 80 mins  
 $80 - (35 + 30) = 15\text{min}$  MA1  
 $35 : 30 : 15$  MA1  
 $7 : 6 : 3$  A1

- 6 (a) < A1  
 (b) = A1  
 (c) < A1  
 (d) > A1

- 7 evidence of  $\sqrt{52}$  A1  
 7.2 (accept 7.1 or 7.3) MA1

- 8 Aaron =  $16 \div 4 = 4$  miles }  
 Ben =  $28 \div 4 = 7$  km } MA1  
 4 miles =  $4 \times 1.6 = 6.4$  km MA1  
 They are 0.6 km apart A1

- 9 (a) 1000110 A1  
 (b) 99 A1

10

silver	white	red	blue
0.24	0.5	0.07	0.07

A4

- 11 correct construction A2

- 12  $\frac{1}{4}$  MA1  
 $\frac{1}{4}$  of 40 = 10 MA1

- |           |  |     |
|-----------|--|-----|
| <b>13</b> | (a) $3x - 5 > x + 1$                             | A1  |
|           | (b) $3x - x > 1 + 5$                             | MA1 |
|           | $2x > 6$   | MA1 |
|           | $x > 3$  | A1  |
|           | (c) 4  | A1  |
|           |  |     |
| <b>14</b> | (a) $y^6$  | A1  |
|           | (b) $w^{12}$                                     | A1  |
|           | (c) $5m$   | A1  |
|           |  |     |
| <b>15</b> | (a) correct reflection                           | A2  |
|           | (b) correct translation                          | A2  |
|           |  |     |
| <b>16</b> | $0.45 \times 900 = 405$ girls                    | MA1 |
|           | $0.4 \times 405 = 162$                           | MA1 |
|           | $0.6 \times 495 = 297$                           | MA1 |
|           | $162 + 297 = 459$                                |     |
|           | Yes he is right as 459 is over half of 900 (450) | A1  |