



## GCSE Foundation 19

*Shape, space and measure*

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58 minutes



55 marks

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*Measures*

<b>M1.</b>	(a) [66, 70]	<b>B1</b>	<b>[5]</b>
	(b) [46, 50]	<b>B1</b>	
	(c) $56 \times 19$ or $1100 \div 19$ or $1100 \div 56$	<b>M1</b>	
	1064 or 57.89... or 19.6(...) <i>Accept 1060, 58, 57.9, 57.8, 57, 20</i>	<b>A1</b>	
	No <i>Strand (iii) Correct conclusion from their clear working Dependent on M1</i>	<b>Q1 ft</b>	
<b>M2.</b>	(a) $120 \div 8$	<b>M1</b>	<b>[5]</b>
	15	<b>A1</b>	
	(b) $8 + 12$ or 20 seen <i>Any one pair from 16, 24, (40) 24, 36 (60) 32, 48, (80) 40, 60 (100)</i>	<b>M1</b>	
	$120 \div$ their 20 <i>48, 72 (120)</i>	<b>M1</b>	
	6	<b>A1</b>	
	(c) 6000 (g) seen <i>1000 grams = 1 kg seen or implied 0.12(0) seen</i>	<b>B1</b>	
	their $6000 \div 120$ <i><math>6 \div</math> their 0.12(0) <math>6 \div 120 \times 1000</math> scores B1 M1</i>	<b>M1</b>	
	50 <i>SC1 for answer digit 5, eg 5 or 500 if no working shown</i>	<b>A1 ft</b>	

- (d)  $120 \div 1.99$  **and**  $100 \div 1.59$  oe  
 $1.99 \div 120$  **and**  $1.59 \div 100$  oe  
*Must be a consistent pair*

M1

60.(3...) **and** 62.(8...)  
 $0.016...$  **and**  $0.015...$

A1

Choose 100 (grams)

Use of a consistent pair and correct choice for their answer  
*Unsupported 100 chosen scores M0A0Q0*  
*Strand (iii)*  
*dep on M1 scored only*

Q1 ft

### Alternative method

$5 \times 1.99$  **and**  $6 \times 1.59$   
*Comparing cost of 600 g*

M1

9.95 **and** 9.54

A1

Choose 100 (grams)

Use of a consistent common multiple or factor of 100 and 120 and correct choice for their answer  
*Unsupported 100 chosen scores M0A0Q0*  
*Strand (iii)*  
*dep on M1 scored only*

Q1 ft

[11]

**M3.**  $15 + 7 \times 40$  or 295  
 $7 \times 40$  or 280

M1

(their)  $295 \div 60$  or 4 h 55 m  
*(their)  $280 \div 60$  or 4 h 40 m*  
 oe

M1

	12:45 – (their) 4 h 55 m 12:45 – (their) 4 h 40 m – 15 m	M1	
	07:50 oe SC3 08:05	A1	[4]
M4.	Height of man 1.8 Accept [1.5, 2]	B1	
	Their 1.8 × 6 Allow [5, 7]	M1	
	10.8	A1 ft	[3]
M5.	(a) 1 km = 1000 m <b>or</b> area = 1000 × 10 = 10 000 m <sup>2</sup>	B1	
	(b) 200 or 7000 seen	B1	
	7000 ÷ 200	M1	
	35	A1	[4]
M6.	5 × 4.47	M1	
	Their 22.35 × 27	M1 dep	
	603	A1	
	600 < 603 so not speeding oe	A1	

**Alternate method**

$$600 \div 27 (= 22.22)$$

M1

$$\text{Their } 22.22 \times 10 \div 4.47$$

M1 dep

$$49.71$$

A1

$$49.71 < 50 \text{ so not speeding}$$

oe

A1

[4]

**M7.** (a) 2.2  
30  
1.75

*B1 for 1 or 2 correct*

B2

(b)  $120 \div 8$  or  $120 \times 5$   
 $70 \div 5$  or  $70 \times 8$

M1

$$120 \div 8 \times 5$$

$70 \div 5 \times 8$  See both 15 and 14 ignore units

M1 dep

120 (km/h) or 75 (mph) or Spain  
*112 and slower or 70 and slower*  
*or UK and slower*

A1

[5]

**M8.** (a) AC or C

B1

(b) Scaling method used or  $3 \times \frac{2}{3}$   
*eg, 1 mile in 20 minutes*  
 $3 \times 40 \div 60$   
*Do not accept 3 miles in 1 hour*

M1

$$2$$

A1

(c) (0) 55

*Tolerance  $\pm 2^\circ$*

B1

[4]

**M9.** (a) (2, 3)

B1

(b) (2, 8)

B1

(c)  $5 \times 3$

M1

15

A1

[4]

**M10.** (a) mm or cm

*Accept equivalent Imperial units throughout, but penalise the first occurrence (  $\equiv$  inches or in )*

B1

(b) Litres

*Accept l (  $\equiv$  gallons or gal )*

B1

(c)  $\text{m}^2$  or hectares

*(  $\equiv$  square yards or acres )*

B1

(d) kg or kilos or tonnes or Newtons

*Accept tons (  $\equiv$  pounds or lb or stone or cwt )*

B1

[4]

<b>M11.</b>	(a)	76	$\pm 0.2$	<b>B1</b>	<b>[3]</b>
	(b)	340	$\pm 2$	<b>B1</b>	
	(c)	87	$\pm 0.5$	<b>B1</b>	

<b>M12.</b>	(a)	Between 2.4 and 2.6 exclusive		<b>B1</b>	<b>[4]</b>
	(b)	1.7 to 1.8 inclusive		<b>B1</b>	
	(c)	4 × value at 2 pints <i>oe 8 × value at 1 pint; 8 ÷ their value in (b); continuation of upward scale M0</i>		<b>M1</b>	
		4.3 to 4.8		<b>A1</b>	

