



Confidential

MARK SCHEME

{6880/01}

QTN	Answer	M	Comments
1	2, 3, 5	B2	B1 for all factors of 30.
2	14	B3	B2 for $13\frac{1}{3}$ M2 for $10 \times \frac{2}{3} \div \frac{1}{2}$ B1 for $6\frac{2}{3}$ or $\frac{1}{2}$ seen
3	$6.3 \div 7$ 0.9	M1 A1	M1 for
4	67.5 (%)	B2	M1 for $\frac{27}{40} \times 100(\%)$
5	(a) 5^3 (b) 5^{-1} (c) 5^0	B1 B1 B1	
6	(a) Correct Venn diagram with numbers 8, 16, 3, 3 in the correct subsets (b) 3	B3 B1	-1 for each wrong or missing number in the subsets -1 for not clearly labelling the Venn diagram
7	(a) $9(9p - 2)$ (b) $4(3 - x)(3 + x)$	B1 B2	B1 for $4(9 - x^2)$
8	(a) Triangle correctly drawn (b) 5.6 ± 0.2 mm	B3 B1	B1 for side EF B1 for side FG B1 for angle EFG
9	(a) 52.1 (b) 72	B3 B1	M2 $\frac{573}{11}$ SC 1 for 573 seen
10	(a) $x + 2$ (b) $x + x + 2 + 5x = 79$ (c) 11	B1 B1 B2	M1 $7x = 77$
11	(x =) 233°	B1	
12	(a) 0.6647 or 0.665 (b) -5.300 to -5.304 (c) -1.31 to -1.3129	B1 B1 B1	
13	(a) 15.20 to 15.21 (b) $3.5^2 + 12^2 = 12.5^2$ It is a right-angled triangle	B2 M1 A1	M1 fo $\pi (2.2)^2$
14	(a) $81 \text{ (cm}^2\text{)}$ (b) 12.7 (cm)	B1 B2	M1 for $\sqrt{9^2 + 9^2}$
15	Rotation, centre (0, 0), 180° or Enlargement, centre (0, 0) SF = -1	B3	B1 for rotation or Enlargement B1 for centre B1 for angle or scale factor
16	$\frac{3}{8}$	B2	M1 for $1 - \frac{5}{8}$

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17	(a) $\begin{pmatrix} -16 \\ 8 \end{pmatrix}$	B1	M1 for $\begin{pmatrix} 8 \\ -4 \end{pmatrix} + \begin{pmatrix} 1 \\ 9 \end{pmatrix}$
	(b) $\begin{pmatrix} 9 \\ 5 \end{pmatrix}$	B2	
18	(a) $15d - 5$	B2	M1 for $7 - 12 + 15d$
	(b) $\frac{13 + 4r}{15}$	B3	M2 for $\frac{12 - 3r + 7r + 1}{15}$ M1 for $\frac{3(4 - r) + 7r + 1}{15}$
19	$\begin{pmatrix} -4 & 12 \\ -1 & 3 \end{pmatrix}$	B2	B1 for 3 correct entries
20	(a) 360°	B1	B1 for 540° seen
	(b) 108°	B2	