



Published

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Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

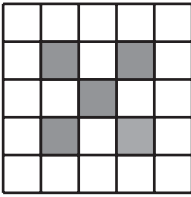
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Abbreviations

| | |
|------|----------------------------|
| awrt | answers which round to |
| cao | correct answer only |
| dep | dependent |
| FT | follow through after error |
| isw | ignore subsequent working |
| oe | or equivalent |
| SC | Special Case |
| nfww | not from wrong working |
| soi | seen or implied |

| Question | Answer | Mark | Part Marks |
|----------|--|--------|--|
| 1 (a) | 8, 2, 6, 4 | 2 | B1 for 3 correct frequencies |
| (b) | Complete correct bar chart including scale | 3FT | FT <i>their</i> frequencies. B1 for correct linear scale B1 FT for 2 correct height |
| 2 | $\frac{2}{5}$ 42% 0.49 | 2 | M1 for 2 correct in same form |
| 3 |  | 1 | |
| 4 | Rhombus Kite | 1 1 | |
| 5 | 6 | 1 | |
| 6 | 24 | 2 | M1 correct first step If 0 scored, SC1 for $24k$ on answer line |
| 7 (a) | $\frac{45}{360}$ or equivalent fraction | 2 | B1 for 45 seen |
| (b) | 24 | 2 | M1 for equating 135 with 9 students |
| 8 | -1 | 2 | M1 for $5 \times 3 - 3 \times 7$ or better |
| 9 (a) | 48 | 1 | |
| (b) | 30 | 2 | M1 for angle PTO or $PSO = 90^\circ$ soi |
| 10 | 25 | 3 | B1 for two of 4, 2 and 0.5 M1 for correct evaluation of <i>their</i> $4 + 2 \times 0.5$ |

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| Question | Answer | Mark | Part Marks |
|---|--|----------------------------------|---|
| 11 | $90p + 85q$ | 2 | B1 for $90p$ or $85q$ seen If 0 scored, SC1 for $0.9p + 0.85q$ |
| 12 | $9\pi + 18$ | 2 1 | M1 for $0.5 \times 18 \times \pi$ or equivalent forms |
| 13 | 12 | 2 | M1 for a correct first step e.g. $\frac{9}{6} = \frac{PR}{8}$ or [scale factor] $\frac{2}{3}$ |
| 14 (a) (b) | $f(x) - 1$ $-15 \leq f(x) \leq 6$ | 1 2 | B1 for 6 and -15 stated, but not shown as a range or B1 for 1 correct inequality. |
| 15 (a) (b) (c) | $\begin{array}{cc} 9 & 16 \\ 16 & 20 \end{array}$ 64 $4n + 4$ oe | 2 1 2 | B1 for 1 correct row or column. B1 for $4n + k$ or $jn + 4$ ($j \neq 0$) |