Oxford Revise | AQA GCSE Maths Foundation| Answers

Chapter 17 Angle facts

Question	Answer	Extra information	Marks
17.1	The acute angle measures $75°$, so the reflex angle is $360° - 75° = 285°$		1
17.2	For example, $10°$ and $20°$ are both acute. $10° + 20° = 30°$, which is still acute.	Any two angles that add to less than $90°$	1
17.3	$x = 180 - 151 = 29°$	$x + 151 = 180$ or $180 - 151$ Correct answer	1 1
17.4	From the number 1 to the number 5 is 4 hours, or one-third of the way around. $360 \div 3 = 120$ The hand turns $120°$	$360 \div 3$ or equivalent Correct answer	1 1
17.5 (a)	$a = 120°$ Alternate angles are equal	Correct angle Correct answer	1 1
17.5 (b)	$b = 115°$ Corresponding angles are equal	Correct angle Correct answer	1 1
17.6	$3y + 10 = y + 30$ $2y = 20$ $y = 10°$	$3y + 10 = y + 30$ Correct algebraic step, eg $2y + 10 = 20$ Correct answer	1 1 1
17.7 (a)	$(3, 2)$		1

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Question	Answer	Extra information	Marks
17.7 (b)	Point D plotted at $(3, 4)$ to form a square		1
17.7 (c)	$(3, 4)$		1
17.8	Trapezium		1
17.9	Isosceles triangle $180 - 42 = 138$ $138 \div 2 = 69$ $y = 69°$	 $(180 - 42) \div 2$ Correct answer	 1 1
17.10	Angles on a straight line add to 180. Therefore, angle $ABC = 180 - 95 = 85°$ Opposite angles in a rhombus are equal. Therefore, $x = 85°$	Correct reason stated Correct angle of $85°$ Fully correct	1 1 1
17.11	Angles in a quadrilateral add to $360°$ $x + 2x + 3x + 20 = 360$ $6x + 20 = 360$ $6x = 340$ $x = 56.7°$ The smallest angle is $20°$	Correct equation Any correct algebraic step Correct answer	1 1 1
17.12	Angle $EAD = 44$ (alternate angles with AFB) Angle $FDE = 180 - 44 - 90 = 46°$ (Angles in a triangle add to $180°$)	$EAD = 44$ $180 - 90 -$ angle EAD Correct answer	1 1 1

Question	Answer	Extra information	Marks
17.13 (a)	$4.5 \times 19.2 = 4.5 \times 192 \div 10$ $= 864 \div 10$ $= 86.4$		1
17.13 (b)	$450 \times 0.0192 = 4.5 \times 100 \times 192 \div 10\,000$ $= 4.5 \times 192 \times 100 \div 10\,000$ $= 864 \div 100$ $= 8.64$		1
17.13 (c)	$\frac{864}{4.5} = 192$ $\frac{864 \div 100}{4.5 \div 10} = 192 \div 10 = 19.2$		1
17.14	Seb is wrong. $5x$ and 2 are not like terms so you can't subtract one from the other.	Correct explanation	1