

AQA Qualifications

GCSE Methods in Mathematics (Linked Pair Pilot)

9365F Unit 2: Foundation Tier Mark scheme – Additional Guidance

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Q	Additional Guidance
4(f)	Additional exemplars provided.
	Any completely enclosed 'L' with further 'L's not prohibiting further tessellation B1
7(a)(b)	Will need to mark both clips together
8	If evidence of using perimeter 0 marks
	If all parts of B 'counted' B0
9(c)	Exemplars provided
12	Answer line takes precedence
15(b)	$2 \times 8 - 3 = 13$ M1 A1 if answer line blank <i>or</i> M1 A0 if further answer given.
	Correct inverse flow diagram M1
19	It is not necessary to multiply $23 \div 40$ or their $(40 - 23) \div 40$ by 100 to get M1 as many students may be familiar with a multiplier so know to just move the decimal point to get the percentage.
	It is necessary to multiply by 100 to get the follow through in the alternate scheme as the answer must be converted to a percentage.
	In the first scheme $23 \div 40 = 0.575$ M1, $100 - 0.575 = 99.425$ A0, A1ft as this shows the correct strategy.
	It is unlikely that if $40 - 23$ is miscalculated but this must be seen to score. eg $27 \div 40$ may imply that $40 - 23$ is miscalculated but unless $40 - 23 = 27$ is seen then it is M0.
	Third scheme is for taking 40 as 100% and breaking 40 up to get 23 or 17. This is a M1, M1dep scheme so no follow through.
	Fourth scheme is for scaling 40 to 100 and doing the same scaling for 23 or 17. This is a M1, M1 scheme where if the second M1 is awarded it implies the first but no follow through.
20	.Allow $a^2 = \text{odd}$ as a is given as odd in the question and/or $b^2 = \text{even}$ as b is given as even in the question. Allow $a^2 + b^2 = \text{odd}$ if both $a^2 = \text{odd}$ and $b^2 = \text{even}$ stated.
23	Only the first 5 dps need be checked as it is impossible that if these are correct that the rest will be wrong.
	Common wrong answers:
	2.19010 rounding to 2.2 (not a problem as part (a) is GM)
	-0.44871 rounding to -0.4
	4.52099 rounding to 4.5

26(b)	If the equation is set up correctly and solved incorrectly then the Q1 is awarded.
	ie 2x + 3 + x + 6 = 30, 3x + 9 = 30, 3x = 39, x = 13 is M1, A0, Q1
	Otherwise the wrong equation providing it includes both x , $2x$ (or $3x$) and a 'sensible' combination of numbers from 3, 6 and/or 30 must be solved correctly for Q1
	Special case if $3x$ or $6x$ given for 3 or 6 and this is used to set up the equation then allow Q1 if equation set up and solved correctly, eg $3x$ and $6x$ given in (a), $x + 2x + 3x + 6x = 30$, $x = 2.5$ is Q1.
	7 without an equation is Q0, M1, A1