## AQA

AQA Qualifications

# GCSE <br> Methods in Mathematics <br> (Linked Pair Pilot) 

9365F<br>Unit 2: Foundation Tier<br>Mark scheme - Additional Guidance

## 9365

June 2014

Version: v1.0 Final

| Q | Additional Guidance |
| :---: | :---: |
| 4(f) | Additional exemplars provided. <br> 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) | $2 \times 8-3=13 \mathrm{M} 1 \mathrm{~A} 1$ if answer line blank or 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 M 1 as many students may be familiar with a multiplier so know to just move the decimal point to get the percentage. <br> 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. <br> In the first scheme $23 \div 40=0.575 \mathrm{M} 1,100-0.575=99.425 \mathrm{~A} 0$, A1ft as this shows the correct strategy. <br> 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 MO. <br> 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. <br> 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 $a^{2}=$ odd as $a$ is given as odd in the question and/or $b^{2}=$ even as $b$ is given as even in the question. Allow $a^{2}+b^{2}=$ odd if both $a^{2}=$ odd and $b^{2}=$ 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. <br> Common wrong answers: <br> 2.19010... rounding to 2.2 (not a problem as part (a) is GM) <br> $-0.44871 \ldots$ rounding to -0.4 <br> $4.52099 \ldots$ rounding to 4.5 |
|  |  |

26(b) If the equation is set up correctly and solved incorrectly then the Q1 is awarded.
ie $2 x+3+x+6=30,3 x+9=30,3 x=39, x=13$ is M1, A0, Q1
Otherwise the wrong equation providing it includes both $x, 2 x$ (or $3 x$ ) and a 'sensible' combination of numbers from 3, 6 and/or 30 must be solved correctly for Q1
Special case if $3 x$ or $6 x$ 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 $3 x$ and $6 x$ given in (a), $x+2 x+3 x+6 x=30, x=2.5$ is Q1.
7 without an equation is $\mathrm{Q} 0, \mathrm{M} 1, \mathrm{~A} 1$

