

Mark Scheme (Results)

November 2011

GCSE Mathematics (2381)

Paper 5381F_5B (Non-Calculator)

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NOTES ON MARKING PRINCIPLES

1 Types of mark

M marks: method marks

A marks: accuracy marks

B marks: unconditional accuracy marks (independent of M marks)

2 Abbreviations

cao – correct answer only

ft – follow through

isw – ignore subsequent working

SC: special case

oe – or equivalent (and appropriate)

dep – dependent

indep - independent

3 No working

If no working is shown then correct answers normally score full marks

If no working is shown then incorrect (even though nearly correct) answers score no marks.

4 With working

If there is a wrong answer indicated on the answer line always check the working in the body of the script (and on any diagrams), and award any marks appropriate from the mark scheme.

If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.

If it is clear from the working that the “correct” answer has been obtained from incorrect working, award 0 marks. Send the response to review, and discuss each of these situations with your Team Leader.

If there is no answer on the answer line then check the working for an obvious answer.

Any case of suspected misread loses A (and B) marks on that part, but can gain the M marks. Discuss each of these situations with your Team Leader.

If there is a choice of methods shown, then no marks should be awarded, unless the answer on the answer line makes clear the method that has been used.

5 Follow through marks

Follow through marks which involve a single stage calculation can be awarded without working since you can check the answer yourself, but if ambiguous do not award.

Follow through marks which involve more than one stage of calculation can only be awarded on sight of the relevant working, even if it appears obvious that there is only one way you could get the answer given.

6 Ignoring subsequent work

It is appropriate to ignore subsequent work when the additional work does not change the answer in a way that is inappropriate for the question: e.g. incorrect canceling of a fraction that would otherwise be correct

It is not appropriate to ignore subsequent work when the additional work essentially makes the answer incorrect e.g. algebra.

Transcription errors occur when candidates present a correct answer in working, and write it incorrectly on the answer line; mark the correct answer.

7 Probability

Probability answers must be given as fractions, percentages or decimals. If a candidate gives a decimal equivalent to a probability, this should be written to at least 2 decimal places (unless tenths).

Incorrect notation should lose the accuracy marks, but be awarded any implied method marks.

If a probability answer is given on the answer line using both incorrect and correct notation, award the marks.

If a probability fraction is given then cancelled incorrectly, ignore the incorrectly cancelled answer.

8 Linear equations

Full marks can be gained if the solution alone is given on the answer line, or otherwise unambiguously indicated in working (without contradiction elsewhere). Where the correct solution only is shown substituted, but not identified as the solution, the accuracy mark is lost but any method marks can be awarded.

9 Parts of questions

Unless allowed by the mark scheme, the marks allocated to one part of the question CANNOT be awarded in another.

10 Money notation

Accepted with and without the “p” at the end.

11 Range of answers

Unless otherwise stated, when any answer is given as a range (e.g. $3.5 - 4.2$) then this is inclusive of the end points (e.g. 3.5, 4.2) and includes all numbers within the range (e.g. 4, 4.1).

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Question		Working				Answer				Mark	Notes
1	(a)	Helen 30 + 80 = 110 Robin 40 + 60 = 100				20				1	B1 cao
	(b)					Wednesday				1	B1 cao
	(c)					10				2	M1 for adding Helen’s times and Robin’s times and attempt at subtracting A1 for 10
2	(a)					x marked at ½				1	B1 for x marked at ½
	(b)					x marked at 0				1	B1 for x marked at 0
3	(a)	10	10	0	20	-	10	-	-	3	B3 all 7 extra entries correct (B2 for 4, 5 or 6 extra entries correct) (B1 for 1, 2 or 3 extra entries correct)
		20	20	10	50	20	-	-	50		
		5	10	15	30	-	10	15	30		
		35	40	25	100	-	-	25	-		
	(b)	$\frac{20}{100}$				$\frac{1}{5}$				2	M1 for probability written as a fraction oe with numerator 20 or denominator 100 A1 for 20/100 or 1/5 oe
4						(R, 1); (R, 2); (R, 3); (R, 4); (G, 1); (G, 2); (G, 3); (G, 4); (B, 1); (B, 2); (B, 3); (B, 4)				2	B2 for all 12 correct combinations seen with no incorrect combinations, ignore duplicates (B1 for at least 3 extra correct combinations)
5						No time scale specified Response boxes too vague				2	B2 for 2 of the following traits: <ul style="list-style-type: none">No time frameResponse boxes too vague (not specific)No zero response box, oe (B1 for just one of the above traits)

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