

YEAR 5 MATHEMATICS Termly Assessment Tests

Guidance and mark schemes

SCHOLASTIC

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Guidance and mark schemes for mathematics: Year 5

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About this pack

This pack provides you with termly assessment tests to help support children with endof-year tests and to assess which skills need further development. The pack consists of this introductory booklet (including mark schemes) and tests that cover a wide range of content taken from the Key Stage 2 programme of study.

Using the termly assessment tests

The tests in this pack can be used as you would any other assessment materials. The children need to be familiar with specific test-focused skills, such as ensuring equipment functions properly, leaving questions if they seem too difficult, working at a suitable pace for the tests and checking through their work.

These tests are short at only 30 or 40 minutes per paper, as they are testing the degree of competence children have.

About the tests

Each maths test has three papers:

- Paper 1: arithmetic these are context-free calculations. The children have 30 minutes to answer the questions. 40 marks are available.
- Paper 2 and Paper 3: reasoning these are mathematical reasoning problems both in context and out of context. The children have 40 minutes per paper to answer the questions. 35 marks are available per paper.

The papers should be taken in order and children may have a break between papers. All of the tests broadly increase in difficulty as they progress, and it is not expected that all children will be able to answer all of the questions.

The marks available for each question are shown in the answer booklet next to each question and are also shown next to each answer in the mark scheme.

Test coverage

The test content is divided into strands and sub-strands. These are listed, for each question, in a table on the back cover of every test to allow tracking of difficulties. In a small number of cases, where practical equipment such as containers would be required, these aspects are not tested.

Strand	Sub-strand
	counting (in multiples)
	read, write, order and compare numbers
Number and place value	place value; Roman numerals
Number and place value	identify, represent and estimate; rounding
	negative numbers
	number problems
	add/subtract mentally
	add/subtract using written methods
	estimates, use inverses and check
	add/subtract to solve problems
Addition, subtraction, multiplication and	properties of number (multiples, factors,
division (calculations)	primes, squares and cubes)
	multiply/divide mentally
	multiply/divide using written methods
	solve problems (commutative, associative,
	distributive and all four operations)
	recognise, find, write, name and count fractions
	equivalent fractions
	compare and order fractions
	add/subtract fractions
	multiply/divide fractions
Fractions	fractions/decimals equivalence
	rounding decimals
	compare and order decimals
	multiply/divide decimals
	solve problems with fractions and decimals
	fractions/decimal/percentage equivalence
	solve problems with percentages

Strand	Sub-strand	
	compare, describe and order measures	
	estimate, measure and read scales	
	money	
	telling time, ordering time, duration and	
	units of time	
Measurement	convert between metric units	
	convert metric/imperial	
	perimeter, area	
	volume	
	solve problems (money; length;	
	mass/weight; capacity/volume)	
	recognise and name common shapes	
	describe properties and classify shapes	
Geometry – properties of shape	draw and make shapes and relate 2D and	
	3D shapes (including nets)	
	angles – measuring and properties	
	patterns	
Geometry – position and direction	describe position, direction and movement	
	coordinates	
Statistics	interpret and represent data	
Statistics	solve problems involving data	

Marking and assessing the papers

The mark schemes and answers are located towards the end of this booklet.

The mark schemes provide details of correct answers including guidance for questions that have more than one mark.

Interpreting answers

The guidance below should be followed when deciding whether an answer is acceptable or not. As general guidance, answers should be unambiguous.

Problem	Guidance
The answer is equivalent to the one in the mark scheme.	The mark scheme will generally specify which equivalent responses are allowed. If this is not the case, award the mark unless the mark scheme states otherwise. For example: 1 1/2 or 1.5
The answer is correct but the wrong working is shown.	A correct response will always be marked as correct.
The correct response has been crossed (or rubbed) out and not replaced.	Do not award the mark(s) for legible crossed-out answers that have not been replaced or that have been replaced by a further incorrect attempt.
The answer has been worked out correctly but an incorrect answer has been written in the answer box.	Where appropriate follow the guidance in the mark scheme. If no guidance is given then:
	• award the mark if the incorrect answer is due to a transcription error
	 award the mark if there is extra unnecessary workings which do not contradict work already done
	 do not award the mark if there is extra unnecessary workings which do contradict work already done.
More than one answer is given.	If all answers are correct (or a range of answers is given, all of which are correct), the mark will be awarded unless specified otherwise by the mark schemes. If both
	correct and incorrect responses are given, no mark will be awarded.

Problem	Guidance
There appears to be a misread of numbers affecting the working.	In general, the mark should not be awarded. However, in two-mark questions that have a working mark, award one mark if the working is applied correctly using the misread numbers, provided that the misread numbers are comparable in difficulty to the original numbers. For example, if '243' is misread as '234', both numbers may be regarded as comparable in difficulty.
No answer is given in the expected place, but the correct answer is given elsewhere.	Where an understanding of the question has been shown, award the mark. In particular, where a word or number response is expected, a pupil may meet the requirement by annotating a graph or labelling a diagram elsewhere in the question.

Formal written methods

The following guidance, showing examples of formal written methods, is taken directly from the National Curriculum guidelines. These methods may not be used in all schools and any formal written method, which is the preferred method of the school and which gives the correct answer, should be acceptable.

Long multiplication

24	× 16	16 becomes			
	2 2	4			
×	Ι	6			
2	4	0	-		
I	4	4			
3	8	4	-		

432 ÷ 5 becomes

8 6 r2 5 4 3 ³2

Answer: 86 remainder 2

124 × 26 becomes				
	ו 	2 2	4	
×		2	6	
	7	4	4	
2	4	8	0	
3	2	2	4	
I	I			
Ans	wer:	322	24	

496 ÷ 11 becomes 4 5 rl 11 4 9 5 6 Answer: 45 $\frac{1}{11}$

Answer: 14

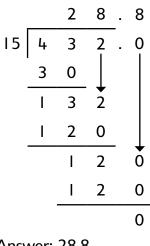
7 9 ²8

Long division

432 ÷ 15 becomes					
		2	8	rl2	
15	4	3	2		
	3	0	0	_	
	Ι	3	2	-	
	I	2	0	_	
		I	2	-	

Answer: 28 remainder 12

432 ÷ 15 becomes



Answer: 28.8

Answer: 384

Short division 98 ÷ 7 becomes

National standard in maths

The mark that each child gets in the test paper will be known as the 'raw score' (for example, '62' in 62/110). The raw score will be converted to a scaled score and children achieving a scaled score of 100 or more will achieve the National Standard in that subject. These 'scaled scores' enable results to be reported consistently year-on-year.

The guidance in the table below shows the marks that children need to achieve to reach the National Standard. This should be treated as a guide only, as the number of marks may vary. You can also find up-to-date information about scaled scores on our website: www.scholastic.co.uk/nationaltests

Marks achieved	Standard
0–60	Has not met the national standard in mathematics for Year 5
61–110	Has met the national standard in mathematics for Year 5

Mark scheme Test A: Paper I

Q	Answers	Mark
I	108	I
2	20	I
3	89	I
4	0.2	I
5	44	I
6	870	I
7	9	I
8	104	I
9	96	I
10	$\frac{1}{3}$	I
11	0.9	I
12	25	I
13	30	I
14	564	I
15	$\frac{2}{5}$	I.
16	1800	I
17	31	I
18	1008	I
19	855	I
20	23	I
21	20,412	I
22	6.5	I
23	$\frac{3}{4}$	I
24	0.43	I
25	3.2	I
26	124 r2	2
	Award 1 mark for a correct written method for short division but with one arithmetic error.	
27	6	I
28	7266	2
	Award 1 mark for a correct written method for long multiplication but with one arithmetic error.	

Q	Answers	Mark
29	71,632	I
30	1050	I
31	8	I
32	I 6,380	2
	Award I mark for a correct written method for long multiplication but with one arithmetic error.	
33	41	I
34	535 r3	2
	Award I mark for a correct written method for short division but with one arithmetic error.	
35	634.62	I
36	$\frac{1}{2}$ or $\frac{6}{12}$ or $\frac{3}{6}$	I
	Total	40

Mark scheme Test A: Paper 2

Q	Answers				Marks			
I	4 beads should be circled.							
2	$\frac{452}{-120}$							
3	The thermomete (Accept answers		ked at −5°C ut not if they are	ambiguous.)	I			
4	1715				I			
5	840,000				I			
6	3 13 10				I			
7	943,506, 944,5	506, 945,506 ,	946,506 , 94	7,506	I			
8	CXXVI				I			
9	100,000cm (one	hundred thousa	nd)		2			
		or correct knowle d 1km = 1000m	edge of unit conve	ersions.				
10	5440							
	Award 1 mark for a correct written method but with one arithmetic error.							
П	Irregular triangle							
	Regular quadrilateral							
	Irregular quadrilateral							
	Regular hexagon							
12	Fraction	Decimal	Percentage		I			
	10%							
	<u> </u> 2	0.5	50%					
	<u>3</u> 4	0.75	75%					
	<u>+</u>	I	100%					

Q	Answers	Marks				
13	Yes	Ι				
	Award I mark for an incorrect answer but with a correct approach to solving the problem and only one arithmetic error.					
14	28	I				
	15 18	I				
15	I and 24, 2 and I2, 3 and 8, 4 and 6	·				
16	2.15pm or 14:15	I				
	Accept 14:15pm	I				
17	Accept £11,000 or £12,000 or £13,000 £4680	 2				
	14080	Z				
	Award I mark if the answer is incorrect, but the approach to calculating the answer is appropriate, with a maximum of one arithmetic error in the working.					
18	answer is appropriate, with a maximum of one anthimetic error in the working.	1				
	y	·				
	10 9 9					
	5 4					
	0 1 2 3 4 5 6 7 8 9 10 11 12					
	A reflected: (4, 8), B reflected: (1, 6), C reflected: (4, 3).	I				
	Final part must show an understanding that only the <i>x</i> -coordinates change.					
19	Accept The y-coordinates stay the same. The bar for bus travellers should be 5 units high. The bar should be drawn					
	accurately and to the same width as other bars.					
	Twice as many children <i>walk</i> to school than travel by <i>car</i> .	I				

Q	Answers	Marks
20	19346 19346	I
	- 1 2 8 5 7 or - 6 4 8 9	
	6489 I 2857	
21	£6.75	2
	Award I mark for correct procedure but incorrect answer. Cost = 75p + 50 × (8p + 2p) = £5.75 Sales = 50 × 25p = £12.50 Profit = sales - cost = incorrect answer	
22	<u>45</u> 180	I
23	£359	2
	Award I mark for a correct written method for short division but with with one arithmetic error.	
	Total	35

Mark scheme Test A: Paper 3

	A	
0	Answers	Marks
I	Award I mark only for all three shapes correctly showing a line of symmetry. The triangle is only symmetrical about a horizontal line.	
2	L L L L L L L L L L L L L L L L L L L	I
	accurate within 1mm.	
3	25, 50, 75, IOO , I25 , I50	I
4	Yes (2480 × 11 = 27,280)	I
5	I7°C Do not accept −17.	I
6	$ \begin{array}{c} \frac{1}{8} & 0.5 \\ \frac{3}{10} & 0.41 \\ \frac{41}{100} & 0.125 \\ \frac{1}{2} & 0.75 \\ \frac{3}{4} & 0.3 \end{array} $	I
7	£93.60 Award I mark for demonstration of a correct formal method for long multiplication but incorrect answer. 32p per book	2
8	Four hundred and sixty-three thousand, nine hundred and one. 704,020	l I
9	 Check that the bar chart has been drawn correctly. Award one mark if: the bars are all drawn to the correct height the bars are of all the same width. ¹/₆ of the class have no pet 	2

Q	Answers	Marks
10	$\frac{1}{12}$	2
	Award one mark for correct method to calculate common denominator, with a denominator of 12 found but an incorrect answer.	
11	279 children	I
12	0.015; 0.051; 0.105; 0.150; 0.501; 0.510	I
13	45 ÷ 9 + 53 - 32 = 26	I
14	270°	I
	Reflex angle	I
15	LXVII	I.
16	£2.50	2
	Award 1 mark for correct approach but wrong answer. Popcorn: £20 – £2 change – ticket prices	
17	121,929	I
18	3 grapes	I
19	Perimeter = 19m Area = 13.5m ²	2
	Award 1 mark if the perimeter is correct and the calculation of a single table area is correct. Otherwise award no marks.	
20	£106,000	I
21	20:00 (accept 8pm, do not accept 9pm or 10pm)	I.
	7°C	I
	2.5 hours (accept $2\frac{1}{2}$ hours or 150 minutes)	I
22	552 people	3
	Award 1 mark for 2700 ÷ 2 = 1380	
	Award 2 marks for 1380 ÷ 5 = 276; 276 × 3 = 828	
	Total	35

Mark scheme Test B: Paper I

Q	Answers	Marks
I	6.3	I
2	24	I
3	41	I
4	$\frac{3}{4}$	I.
5	1400	I.
6	5	I
7	573	I
8	1600	I
9	24	I.
10	100	I.
П	$\frac{11}{12}$	I.
12	12.5	I
13	896,248	I
14	0.52	I.
15	207	I.
16	1.1	I
17	13	l I
18	165	l I
19	3.45	l I
20	28	l I
21	40,419	I
22	1400	I
23	484	I
24	0.35	I
25	16,133	I
26	40	Ι
27	2349	2
	Award I mark for a correct written method for short division but with one arithmetic error.	
28	11,638	I

Q	Answers	Marks
29	4611	2
	Award I mark for a correct written method for long multiplication but with one arithmetic error.	
30	$\frac{1}{8}$	I
31	51	I
32	10,710	2
	Award I mark for a correct written method for long multiplication but with one arithmetic error.	
33	3.91	I
34	$4\frac{1}{2}$ or 4.5	I
35	804 rl	2
	Award I mark for a correct written method for short division but with one arithmetic error.	
36	$\frac{9}{12}$ or $\frac{3}{4}$	I
	Total	40

Mark scheme Test B: Paper 2

Q	Answers	Marks	
I	$\frac{1}{8}$	I	
2	24	I.	
3	Ensure line is 53mm. It should be drawn with a ruler and accurate to within 1mm.	I	
4	12,364, 22,364, 32,364 , 42,364 , 52,364 , 62,364	I	
5	Four hundred and thirty-two thousand, five hundred and seventy-eight.	I	
6	25.4cm	I	
7	10	I	
8	945 9759 89,495 320,780 500,000	I	
9	120,000 880,000	I.	
10	760ml	2	
	Award 1 mark for a correct written method but with one arithmetic error.		
11	90°, right angle 165°, obtuse angle (Allow inaccuracies within 1°) Award one mark for each angle measured and named correctly. Award one mark if both angles are measured correctly but named incorrectly, or vice versa.		
12	 456 children 24 spare places If the second answer is incorrect, award I mark for a method which shows a clear understanding of the appropriate order of procedures. For example, calculate year group 4 × 30 = 120 calculate school capacity 4 × 120 = 480 subtract current number 480 - 456 = incorrect answer 		
13	2400 books	I	
14	I 5 children Award I mark for a correct written method but with one arithmetic error.	2	

Q	Answers			Marks
15	[⊥] ₄ pizza each.			2
	Award I mark for correctly iden	tifying $2\frac{1}{2} = \frac{1}{2}$ children.		
16	£855			2
	Award I mark for correct formal written method for short division but with one arithmetic error.			
	£340			I
17	equal, and opposite equal	have two pairs of qual sides. They are djacent to each other.	l only have one pair of parallel sides.	2
			Â	
	Trapezium	Rhombus	Kite	
18	6 ¹¹ / ₁₂	Mombus	Nite	I
19	Side length of square = 6cm			3
	Award 2 marks for the correct calculation but an incorrect arithmetic error. $1 \times 5 = 5 + 31 = 36$ cm ² = total area area = a × b for square = a × a a × a = incorrect answer Award 1 mark for working out the correct total area and attempting to work out the perimeter.			
20	8784 hours			2
	Award one mark for a correct written method for long multiplication but with one arithmetic error.			
21	£1.49			I
	£99.60			I.
22	The car is not moving; it has sto	pped.		I
			Total	35

Mark scheme Test B: Paper 3

Q	Answers				Marks		
I	(Line should b	(Line should be accurate within Imm.)					
2	1057 107	75 1507 1570	1705 1750		I		
3	$ \begin{array}{r} 6 38 \\ + 309 \\ \overline{947} \end{array} $						
4	Decimal	Rounded to the nearest whole	Rounded to one decimal place 0.8		2		
	6.45	6	6.5				
	13.50	14	13.5				
	Award I mar	k for at least four corr	ect answers.				
5	$\frac{1}{2} = \frac{5}{10}, \frac{1}{4} <$	$\frac{3}{8}, \frac{2}{3} > \frac{5}{9}$			L		
6	4.83km				I.		
7		rmometer should be a scow at –4°C and Lon	ccurate to within 1mm	on the scale	I.		
	I I °C		don dt 17 C.		I.		
8	575 star jump	575 star jumps					
	Award I mark for a correct written method but with one arithmetic error.						
	£6.60				I.		
9	2015				I.		
10	200g				I		
11	Accept 3 or the	nree			I		

Q	Answers					Marks
12	Triangle 2:	Triangle I: A(3, 7), B(5, 6), C(6, 9) Triangle 2: D(3, 3), E(5, 4), F(6, 1) (Do not award mark if any coordinates are incorrect.)				
		line at y = 5 vard marks for ar	nbiguous lines or	more than one	line.)	I
13	Ten past si Accept 6:1	x 0am, 6:10pm or	6:10			I
14	Shape					3
	Name	cube	cone	cylinder	triangular prism	
	Faces	6	2	3	5	
	Edges	12	I	2	9	
	Vertices	8	0	0	6	
	all properti	· · · · · · · · · · · · · · · · · · ·		-	f the shapes have ormation is	
15	The numbe	er 10 bus at 15:1 cept just the bus				I
16	97					I
17	4 3					l
18	Graph should show all points accurately marked with a small cross, with individual points connected by straight lines.					I
) estimated heigh marked to show			graph does not Id the answer box	I
19	10 lengths					2
	Award I m	nark for working	out the distance.	30 × 25 = 750 -	- 100 = 250	

Q	Answers	Marks
20	546 miles	2
	Award 1 mark for a correct addition of the four distances shown (1954 miles)	
21	60,000 + 70,000 + 50,000 = 180,000	2
	Award I mark for all numbers rounded correctly. Award I mark for a correct addition of rounded numbers.	
22	60%	I
23	166,273	I
	Total	35

Mark scheme Test C: Paper I

Q	Answers	Marks
I	85	I
2	35	I
3	8	I
4	3200	I
5	36	I
6	0.6	I
7	42	I.
8	351	I
9	210	I
10	135	I.
11	2.5	I.
12	32	I
13	3500	I
14	1.5	I
15	6	I
16	152	I
17	3.9	I
18	<u>5</u> 6	I.
	Accept equivalent fraction eg $\frac{10}{12}$	
19	18,873	I
20	405	1
21	0.26	1
22	46,952	
23	125	
24	170	I.
25	275	L
26	11,936	I
27	$\frac{3}{8}$	I.
28	1242	2
	Award 1 mark for an incorrect answer but with a correct demonstration of an appropriate method.	

Q	Answers	Marks
30	1842	2
	Award I mark for an incorrect answer but with a correct demonstration of an appropriate method.	
31	0.09	I
32	135	I
33	4900	I
34	22,446	2
	Award I mark for an incorrect answer but with a correct demonstration of an appropriate method.	
35	55	I
36	321 rl	2
	Award 1 mark for an incorrect answer but with a correct demonstration of an appropriate method. Also accept 321 r $\frac{1}{8}$ or 321.125	
	Total	40

Mark scheme Test C: Paper 2

Q	Answers				Marks		
I	Thirty-six thousand, four hundred and seventy-eight Award mark only if spelling is correct.				I		
	36,000	cuing is correct.			I		
2	90,000						
3	$\frac{2}{12}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$				I		
	$\frac{1}{2} = \frac{5}{10}, \frac{2}{3} = \frac{6}{9}, \frac{3}{10} = \frac{1}{10}$	<u>30</u> 00			I.		
	$3\frac{3}{5}$				I		
4	2 4 6 4 + 5 3 7 6 7 8 4 0				I		
5	<u> </u> 5				I.		
	Accept $\frac{2}{30}$						
6	Capacity measured with cubes = 64ml						
	Capacity measured with water = 65ml						
	Answer should show understanding that the water method is more accurate as the whole container is filled; and/or that the cube method will be inaccurate due to air gaps, poor arrangement, etc.						
7	3cm B 10cm						
	Because the sides of a rectangle are not all an equal length.						
8	$0.36 = \frac{36}{100}$ and $\frac{7}{20} = \frac{35}{100}$, so Tina is correct.				I		
	$\frac{71}{100}$ or 0.71						
9	I 2,805				I		
10	Distance from Jill's house to the centre of town						
	In km In m In cm In mm						
	2.746km 2746m 274,600cm 2,746,000mm						

Q	Answers	Marks			
П	0.09 and 0.66	I			
	7 tenths , 4 hundredths , 8 thousandths				
	0.75 , 0.7				
	In all cases only award one mark if all answers to that part are correct.				
12	16,710 miles	2			
	Award one mark for correct procedure and written method but with an incorrect answer.				
13	4.8kg	I.			
	Accept 4.800kg				
14	Multiple of 2 7, 9, 11, 13 4, 8, 12, 14 Factor of 30 2, 6, 10 Factor of 30 3, 5, 15	2			
15	437,452 children	I.			
16	Edges and vertices should be accurate to within 1mm. Also accept 7506/6 = 1251 as a correct answer				
17	1 2 5 6 6 7 5 3 6	I			
10					
18	99 girls	T			

Q	Answers	Marks
19	Accept any of 08:25am; 8.25am; twenty-five past eight	I
20	£9350	2
	Award one mark for correct procedure and written method but with an incorrect answer.	
21	5 adults	3
	Award I mark for clear evidence of a suitable approach to solving the problem, including correct written methods, but with an incorrect answer.	
	Total	35

Mark scheme Test C: Paper 3

Q	Answers					Marks
I	CL					I
2	Lines must be accu	rate to within a mil	limetre to awa	ırd mark.		I
3	-5 0 4 -5 Award I mark only if line is marked correctly to show the counting and the correct answer is given.				I	
4	 ³/₈ pizza I I ¹/₄ cakes 					l I
5	Angle	Α	В		с	I.
	Size (degrees)	0°	35°		35°	
	Туре	Obtuse	Acute	A	Acute	
	Isosceles Only award mark if spelling is correct.					I
6	There are approximately 2 inches in five centimetres.There are approximately 2 pints in one litre.There are approximately 2 pounds in one kilogram.Examples will vary – ensure they are correct before awarding mark.ConversionOperationExample					I
	To convert cm to	To convert cm to mm × 10 I 3cm = I 30mm				
	To convert mm	to cm ÷ l	0			
	To convert m to	okm ÷ I (000		-	
	To convert kg	tog × I (000			L.

Q	Answer	S				Marks
7	£362.50				2	
	Award one mark for correct procedure and written method but with an incorrect answer.					
8	4 2 8 4 - 7 2 6 2 5 5 6	53				I
9	2 hours fi	fteen minu	tes and thirty sea	conds		L
10	Fraction Decimal Percentage					I
	-	<u> </u>	0.5	50%		
		 <u> </u> +	0.25	25%		
	4 3 (also accept <u>30</u>)		0.3	30%		
	$\frac{4}{5}$ (or <u>8</u>	0.8	80%		
11						I
	Car	Pri				
	C A	£52, £33,				
	E	£12,				
	B	£84				
	D	£3I	25			
	В					I.
12	3 3 2					I
	× 15 1660 3320 4980					
13		36 + 64 ² so Leila i				2
	Award I mark for correct approach and clear understanding of square numbers but with wrong answer.					

Q	Answers	Marks				
14	4 seconds	I				
	3.25m or $3\frac{1}{4}$ m or 3m 25cm	I.				
15	5 right, 1 up	I.				
	y 12 -					
	10 -					
	9					
	8 - C					
	4					
	3 - B					
	0 1 2 3 4 5 6 7 8 9 10 11 12					
16	0.216	I				
	0.311	I.				
17	From Ashworth to Barton: 38 children From Ashworth to Chivers: 42 children					
18	Perimeter = 32m	I				
	Area = $49m^2$					
19	38,604 Red supporters	I				
20	18,550 buttons					
	Award one mark for correct procedure and written method but with an					
	incorrect answer.					
	106 shirts					
21	35.8 litres, or 35 litres and 800 millilitres					
	Award I mark for clear evidence of a reasoned approach to solving the problem, along with correct use of units, but with an incorrect answer.					
	Total	35				