

Entry Level Certificate in Mathematics R449/W2 SAM Sample Assessment Material Final Written Test 2

Time allowed: about 1 hour



· · · · · · · · · · · · · · · · · · ·
You can use:
a ruler (cm/mm)
a protractor
tracing paper
• coins
counters
coloured pencils or pens
Do not use:
a calculator



Please write cle	arly ir	n blac	k ink.				
Centre number					Candidate number		
First name(s)							
Last name							

INSTRUCTIONS

- · Use black ink.
- Answer all the questions.
- Write your answer to each question in the space provided. You can use extra paper if you need to, but you must clearly show your candidate number, the centre number and the question numbers.

INFORMATION

- The total mark for this test is 40.
- The marks for each question are shown in brackets [].
- This document has 12 pages.

ADVICE

· Read each question carefully before you start your answer.

FOR TEACHER'S USE									
(Maximum mark 40)									

Answer **all** the questions.

1 Ben wants to give a present to Kim.



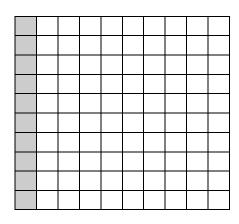
Put these events in the correct order.

	A Give the present	B Buy the present	Wrap the present		
	 1st		3rd	[1]	
2	(a) Which whole number is		a)	[1]	
	(b) Complete this sentence	e.			
	9 is one less than			[1]	

3 Draw lines to match the equivalent pairs below.

50%

10%



25%

<u>1</u>

[2]

4 What time is shown on the clock?



.....[1]

5 This is a recipe for rice pudding.

Rice Pudding

For 4 people

250 ml milk

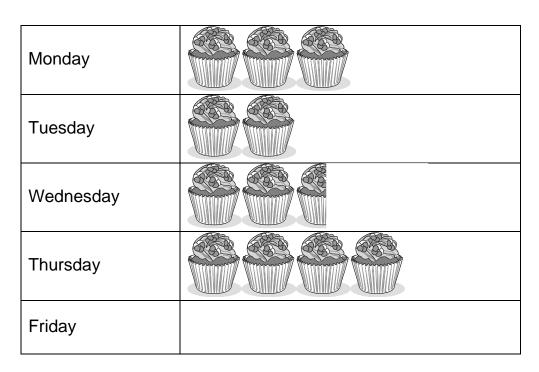
20 g pudding rice

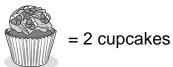
25 g sugar

Floyd is making rice pudding for 8 people.

Show that he will need 50 g of sugar.

6 This is a pictogram of the number of cupcakes sold each day by a bakery.





(a) Three cupcakes were sold on Friday.

Show this on the pictogram.

[2]

(b) How many cupcakes were sold in total?

(b)[4]

7 Petra wants to book a holiday.

She wants to leave on 22 August and return on 6 September.

		AL	JGUS1	Г		
MON	TUE	WED	THU	FRI	SAT	SUN
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

(a)																															ľ	1	1	
-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	---	---	--

(b) What day of the week is 6 September?

8 L	ong ruler	s cost 30p	and short	rulers	cost	10p.
-----	-----------	------------	-----------	--------	------	------

(2)	What is the	difference in	nrice	of a long	rular com	nared to	a short ruler?
(a)	what is the	amerence ii	i piice	or a long	Tulei com	pared to a	a Short Tulei ?

John buys one long ruler and one short ruler with a £1 coin.



(b) Show that John should get 60p change.

[3]

(c) John receives four coins as his change.

Which four coins make exactly 60p?

9 A toy box contains a boat, a car, a train and a plane.









Hazel can pick two toys to play with.

List all the different pairs of toys that Hazel can pick.

1

[2]

10 (a) Round 16.5 to the nearest whole number.

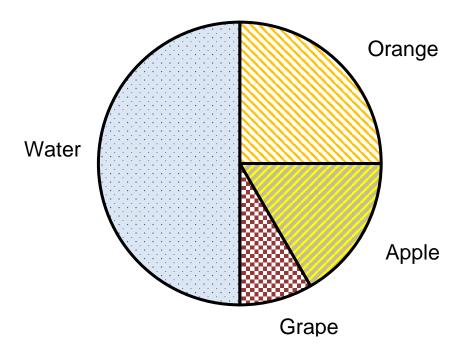
(a)[1]

(b) Show that 18.3×9.8 is approximately 200.

[2]

11 Jacob asked 60 students what drink they had at lunchtime.

He drew a pie chart of their answers.



(a)	What	was	the	most	popular	drink?
-----	------	-----	-----	------	---------	--------

(a)[1]

(b) How many students had an Orange drink?

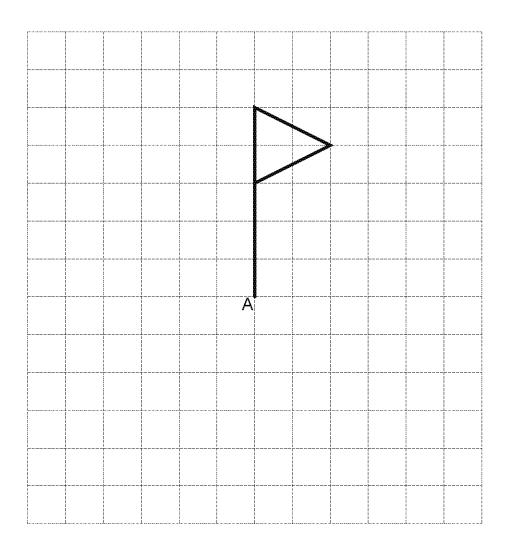
(b)[2]

12 Work out 4^2 .

.....[1]

13 The grid shows a flag.

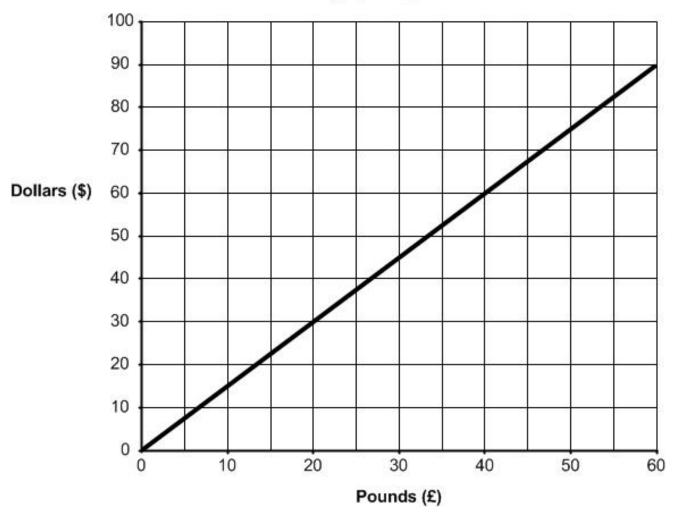
Draw the rotation of the flag by 90° clockwise around point A.



[3]

14

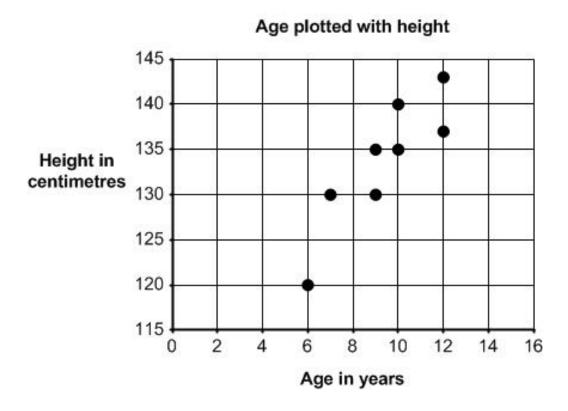




Use the conversion graph above to show that £100 is the same as \$150.

[3]

15 Michelle has drawn a scatter graph showing her friends' ages and heights in centimetres.



Use a line of best fit to predict the height of an 8 year old.

.....cm [2]

END OF QUESTION PAPER

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Entry Level Certificate in Mathematics R449/W2 SAM Sample Assessment Material Final Written Test 2

SAMPLE MARK SCHEME

Duration: about 1 hour

MAXIMUM MARK 40

This document consists of 8 pages

Instructions for marking the internally assessed written tests

- 1. All marking must be done in red.
- 2. Half marks must not be used.
- 3. Each mark must have a tick on the script as close as possible to the point where the mark is scored. Incorrect responses must have a cross to indicate that the answer given has been considered.
- 4. The total mark should be shown on the front cover.
- 5. The mark scheme is intended as a detailed guide to the likely responses of the candidates. Any correct response not included in the mark scheme but which answers the question to the correct level of detail should be given credit.
- 6. An element of professional judgment is required in the marking of any written paper. Remember that the mark scheme is designed to assist in marking incorrect solutions. Marking of the test should be positive, rewarding achievement rather than penalising failure or omissions.

 Incorrect spelling of mathematical words should be ignored, providing there is a clear indication of intention.
- 7. Samples of marked tests will be required for external validation. All test papers should be retained in secure conditions until the end of the course.

Abbreviations: oe or equivalent

cao correct answer only

ft follow through from their answer

soi seen or implied

SC special case

R449/W2 SAM v2 Mark Scheme

Accept words or digits throughout unless otherwise stated.

Que	estion		Answer		Marks	Guidance
1		B 1st	C 2nd	A 3rd	1	Allow any clear abbreviations (e.g. BWG) or arrows to indicate correct order of events
2	(a)	7			1	Allow seven
	(b)	10			1	Allow ten
3		25%	10%		2	1 mark for 1 correct pair
4		11:15			1	Allow quarter past eleven, 23:15 oe Ignore am/pm
5		4 × 2 = 8			1	Clear indication that there is a doubling of the number of people must be shown
		25 × 2 = 50			1	Clear indication that there is a doubling of the 25 g sugar

Mark Scheme

Question		Answer		Guidance	
6	(a)		2	Clear evidence that candidate is attempting to represent $1\frac{1}{2}$ cupcake icons 1 mark for $\frac{1}{2}$ cupcake represents 1 cupcake	
	(b)	26	4	3 marks ft for their attempt at calculating total from their daily frequencies e.g. 6 + 4 + 5 + 8 + 3 or for an answer of 23 i.e. Friday not included Or 2 marks ft for their calculated daily frequencies e.g. 6, 4, 5, 8 Or 1 mark for attempt at finding daily frequencies by doubling the number of pictogram icons e.g. 3 × 2, 2 × 2, 2.5 × 2, 4 × 2	
7	(a)	Tue(sday)	1	Do not penalise misspelling of Tuesday provided clear indication of intention	
	(b)	Wed(nesday)	2	Do not penalise misspelling of Wednesday provided clear indication of intention 1 mark for attempt to count on from Thursday 31st August	
8	(a)	20	1	cao	

R449/W2 SAM v2

Mark Scheme

Que	estion	Answer		Guidance
	(b)	£1 = 100p		Allow changing prices into £0.30 and £0.10
		30 + 10 = 40	1	Allow equivalent methods to get to given answer (i.e.
				recording running total of remaining money as each item
				bought)
		400 40 00		
		100 - 40 = 60	1	
	(c)	20, 20, 10, 10	2	Allow any order
				1 mark for attempt to use British coins to make 60p
				e.g. 50 + 10, 20 + 20 + 20
9			2	All 6 distinct pairs given with no duplication
		boat car boat train		4 month for 2 compat point of toylo
		boat train boat plane		1 mark for 3 correct pairs of toys
		car train		
		car plane		
		train plane		
10	(a)	17	1	cao
	(b)	20 × 10	1	
		200	1	Allow 18.3 × 9.8 = 179.34 which is approximately 200
11	(a)	Water	1	Allow any clear indication of largest section on pie chart

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Mark Scheme

Question	Answer	Marks	Guidance	
(b)	15	2	1 mark for 60 ÷ 4 oe	
12	16	1	cao	
13		1	Clear indication that a 90° clockwise rotation has been attempted, regardless of position or congruence	
	A	1	Clear indication that the rotation has been done about point A, regardless of direction or congruence	
	V	1	Object and image are congruent, regardless of position or orientation	
			Examples for 2 marks Examples for 1 mark A A A A	

Question	Answer		Guidance	
14 F	Conversion graph for pounds and dollars Dollars (\$) 60 Pounds (£) Find relevant conversion values from graph e.g. £20 = \$30 Use appropriate method to multiply up from graph to required quantities e.g. $20 \times 5 = £100$ Use same multiplying factor with dollar amount e.g. $30 \times 5 = 150$	Marks 1 1	Working must be seen oe ft ft $Alternate routes possible such as 30 + 30 + 30 + 30 + 30 or £40 = $60 and £20 = $30, therefore 60 + 60 + 30 = 150$	

R449/W2 SAM v2 Mark Scheme

Question	Answer		Guidance
Question 15	Answer Line of best fit drawn on scatter graph Age plotted with height Height in centimetres 130 125 120 125 120 Age in years Answer given from line of best fit e.g. 130 cm	Marks 1	Cuidance Line must be seen Result matches coordinates on line of best fit

Summary of Updates

Date	Version	Change
September 2019	2	Amends to the mark scheme and some of the images.
July 2021	2.1	Rubric amended to show use of a protractor is permitted