Foundation Mathematics - Practice Examination D

Please note ... the format of this practice examination is the same as the current format. The paper timings are the same, as are the marks allocated.

Calculators may only be used in Paper 2.

MATHEMATICS

Standard Grade - Foundation Level

Paper I

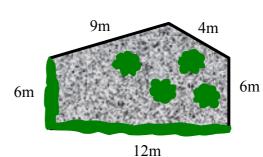
Time Allowed - 20 minutes

First name and initials		Surname	
Class	Teacher		

Read Carefully

- 1. Answer as many questions as you can.
- 2. Write your answers in the spaces provided.
- 3. Full credit will be given only where the solution contains appropriate working.
- 4. You may not use a calculator

1. Calculate the perimeter of the garden.



(2)

KU RE

- 2. Carry out the following calculations.
 - (a) £4.32 \times 5
 - (b) $\frac{1}{8}$ of 344



(1)

(c) 62.5 + 34.8



3. Find the cost of the stereo in the sale if its original price was £160 \cdot .

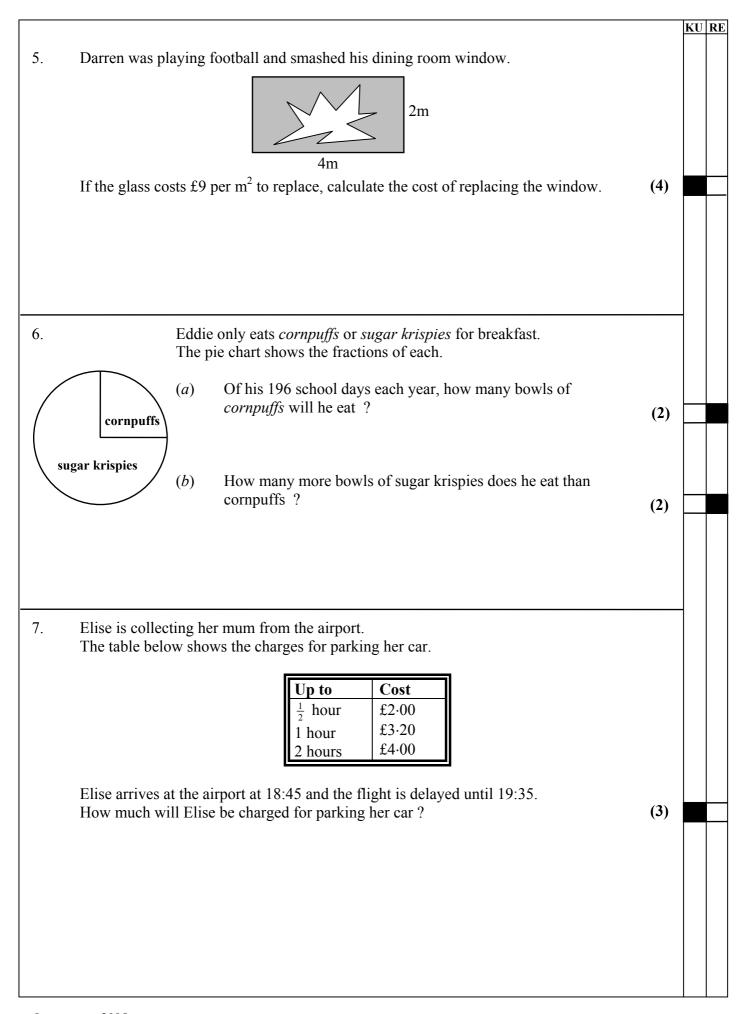
(4)



4. Catrina's class went on a day trip with her school to *Alton Towers*. The bus left the school at 5:20 a.m. and took $5\frac{3}{4}$ hours to reach the theme park.

At what time did Catrina arrive at Alton Towers?

(3)



. The	bales of hay are arranged in Frank's shed as shown.		KU	RI
	(a) How many bales of hay are in the shed altogether?	(2)		
(<i>b</i>)	The shed is filled up on the 1st of July . Frank's horse, Charlie, eats 7 bales of hay each month.			
	During which month will Frank have to buy more hay?	(4)		
	(END OF QUESTION PAPER)			

Foundation Mathematics Practice Exam D

Marking Scheme - Paper 1

	Give 1 mark for each ◆	Illustrations for awarding each mark
1.	know how to find perimeter	• 9 + 4 + 6 + 12 + 6
	• find perimeter	• 37m
		2 marks KU
2(a)	• multiply a decimal number by a single digit	• £21.60
	whole number	
2(b)	. C. 1	- 42
2(b)	find a unitary fraction of a quantity	• 43
2(c)	add decimal numbers	• 97.3
	- udd deelinai iidiiiseis	3 marks KU
3.	• know how to find a simple % of a quantity	• $\frac{1}{5}$ of 160
	• calculate a simple %	
	• know to subtract	• £32
	• subtract correctly	• £160 - £32
		• £128 4 marks KU
4.	• identify length of journey in hours + minutes	• 5hrs 45 mins
7.	know to add time	• 5:20a.m. + 5 hrs 45 mins
	add time correctly	• 11:05a.m.
	add time correctly	3 marks KU
5.	know to find area of window	• 4 × 2
	• find area	• 8m ²
	• know to multiply area by cost per m ²	• 8 × £9
	• calculate cost correctly	• £72
	-	4 marks RE
6(a)	• interpret pie chart	• $\frac{1}{4}$ of 196
	carry out calculation	• 49 bowls
6(b)		T TOWIS
U(D)	• know to find number of bowls of sugar krispies	• 196 - 49 = 147
	• know to subtract quantities	• 147 - 49
	subtract correctly	• 98 bowls
		4 marks KU
7.	• know to subtract times	• 19:35 - 18:45
	• subtract times correctly	• 50 minutes
	• interpret data in table	• £3·20
0(2)		3 marks RE
8(a)	• know how to calculate number of bales of hay	• 5 × 4 × 3
	calculates correctly	• 60 2 marks KU
8(b)	know to divide	• 60 ÷ 7
- (~)	know to divide know to round down	• $8.6 \rightarrow 8 \text{ months}$
	know to add months onto July	• July + another 7 full months
	• conclusion	Restock sometime in March
	Contractor	4 marks RE
		i marks ith

KU	RE
18	11

Foundation Mathematics - Practice Examination D

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Calculators may only be used in this paper.

MATHEMATICS

Standard Grade - Foundation Level

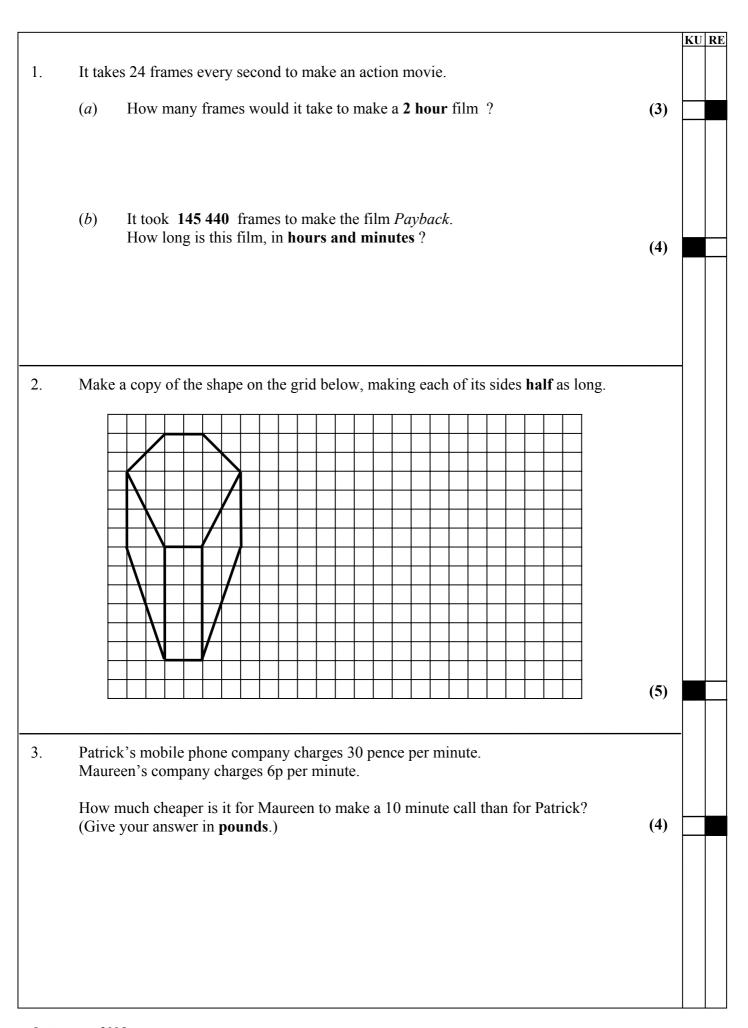
Paper II

Time Allowed - 40 minutes

First name and initials		Surname	
Class	Teacher		

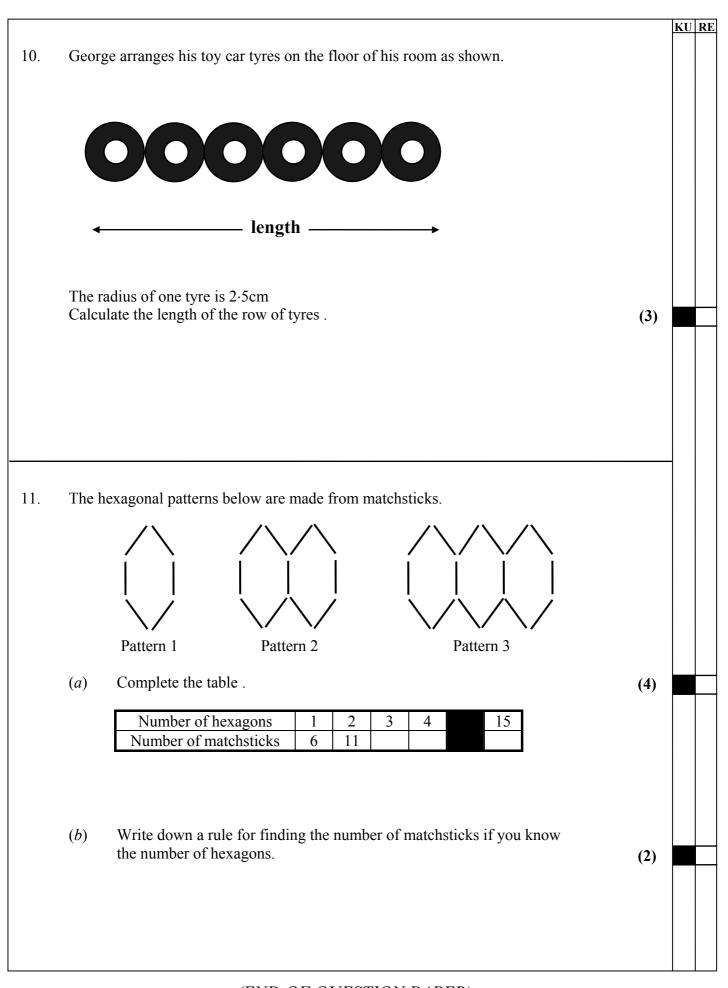
Read Carefully

- 1. Answer as many questions as you can.
- 2. Write your answers in the spaces provided .
- 3. Full credit will be given only where the solution contains appropriate working.
- 4. You may use a calculator



(a)	Calculate the a in the table bel		cut for the five of	ays shown		(3)
	Monday	Tuesday	Wednesday	Thursday	Friday	
	86-4	76.7	91.2	104.5	83.2	
(b)			er this table and mbered that the Wednesday			
		Tuesday				
	95.3 Calculate the n	number of cubi	94.5 ic metres cut on	91·2 Tuesday.	86.4	(4)
	•	number of cubi		•	86.4	(4)
Calc	•			•	86.4	(4)
Calc	Calculate the n	angle x .		•	86.4	
Calc	Calculate the n			•	86.4	(4)

6.	(a) Mr and Mrs McKenzie an Use the information below Cinema Adul Chile	to find the cost of their		(3)	KU RE
	(b) Mrs Jones takes her childr The tickets cost her £18.73			(4)	
7.	Complete the table to show all the a starter, a main course and a dess	Starters Prawn Cocktail Melon Main course Haddock Lasagne Dessert Ice Cream Cheese Cake	en has if she eats	(3)	



Foundation Mathematics Practice Exam D

Marking Scheme - Paper 2

	Give 1 mark for each ●	Illustrations for awarding each mark
1(a)	know to change into frames per minute	• $24 \times 60 = 1440$
	know to change into frames per hour	• $1440 \times 60 = 86400$
	• know to multiply by 2	• $86\ 400 \times 2 = 172\ 800$
		3 marks KU
1(b)	• know to divide by 24 to change into seconds	• $145 440 \div 24 = 6060$ seconds
	• know to divide by 60 to change into minutes	• 6060 ÷ 60
	divides correctly	• 101 minutes
	change into hours and minutes	• 1 hour 41 minutes
		4 marks RE
2	reduce shape horizontally	• 2 of 3 lines halved
	reduce shape vertically	• 2/4 lines halved
	• • reduce shape diagonally	• • (1 mark if 2 or 3 of 6 lines are halved
		2 marks if 4, 5 or 6 lines are halved)
	completion of diagram	 completion of diagram
		5 marks RE
3.	• multiply both costs by 10 correctly	• $30 \times 10 = 300$ p; $6 \times 10 = 60$ p
	know to subtract amounts	• 300 - 60
	• subtract correctly	• 240p
	• change into £	• £2·40
		4 marks KU
4(a)	• know to add and divide by 5	• stated or implied
	adding correctly	• 442
	dividing correctly	\bullet 88·4 m ³
4(1)		3 marks KU
4(b)	• know to multiply average by 5	• $93.4 \times 5 = 467$
	• know to add other 4 days	• 367.4
	know to subtract two answers	• 467 - 367.4
	calculations correct	• 99.6
	_	4 marks RE
5.	• know straight angle = 180°	•
	• know to subtract 37°	• 180 - 37
	subtracting correctly	• 143°
		3 marks KU
6(a)	• calculate cost for 2 adults	$\bullet \ 2 \times £4.75 = £9.50$
	• calculate cost for 5 children	$\bullet 5 \times £3.50 = £17.50$
	add together	• £27
((L)		3 marks KU
6(b)	• observe 1 adult	• 1 × £4·75
	• subtract £4.75 from £18.75	• $18.75 - 4.75 = £14$
	• know to divide by cost of child's ticket	• 14 ÷ 3·50
	dividing correctly	• 4 children
		4 marks RE

(Marking Instructions for Foundation Level - Paper 2cont'd)

	Give 1 mark for each ●	Illustrations for awarding each mark
7.	completion of table	• 3 marks for all 7 entries correct 2 marks for 5 or 6 correct 1 mark for 3 or 4 correct 3 marks RE
8.	 know to change all lengths into centimetres know how to find volume find volume know how to change into litres 	 1.5m = 150cm V = 150× 40 × 60 V = 360 000cm³ V = 360 litres 4 marks KU
9.	 find scale factor know to multiply by scale factor multiply correctly 	• 24 ÷ 8 = 3 • 10 × 3 • 30cm 3 marks KU
10.	 know to find diameter of tyre counts tyres in length correctly calculate length 	 2.5 × 2 = 5cm 6 tyres 6 × 5 = 30cm 3 marks RE
11(a) 11(b)	 completion of table correct rule 	 3 hexagons - 16 matchsticks 4 hexagons - 21 matchsticks 15 hexagons - 76 matchsticks (award 1 mark for evidence of extended pattern with one mistake) 4 marks RE multiply by 5 and add 1 (rule must be correct to obtain these 2 marks i.e. 2 or 0 marks only) 2 marks RE

KU	RE
23	29

Totals (both papers) KU 41 RE 40