11+



SAMPLE

Entrance Examination

MATHEMATICS

Time allowed: 60 minutes

Instructions

- Calculators are NOT allowed. You may use a ruler.
- Attempt all questions.
- If you cannot do a question, go on to the next one and try again later on.
- Do not ask the teacher to explain a question to you.
- If you finish before the end, check your answers and then wait quietly in your place.
- If you do not finish, or if you cannot understand all the questions, do not worry.

Section A

- You should spend about 20 minutes on this section. Each question is worth 1 mark. There are **20** marks for section A.
- Each question is provided with FIVE possible answers, only ONE answer is correct.
- Write the letter for the correct answer in the box on the right
- If you make a mistake, rub it out and try again.

Section B

- You should spend about 40 minutes on this section. Marks for each question are shown in square brackets after the question. There are **40** marks for section B
- Write your answers and working in the spaces provided. **DO NOT** use extra paper.

1. What is 483 + 58?

A: 431	B: 441	C: 531	D: 541	E: 551	
2. Subtr	act 108 from 52	25.			
A: 327	B: 417	C: 407	D: 427	E: 633	
3. What	is 55×160?				

4. Jenny divides 344 by 9. What remainder should she get?

C: 8800

A: 6 B: 5 C: 4 D: 3 E: 2

D: 9800

E: 8400

5. What is 912÷16?

B: 8000

A: 8055

A: 58 B: 57 C: 56 D: 54 E: 52

6. Work out three eighths of	264

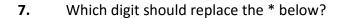
Λ	61
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B: 88

C: 96

D: 99

E: 108



- A: 1
- B: 2
- C: 4
- D: 6
- E: 7

8. 60% of a number is 240. What is the number?

A: 60

B: 144

C: 240

D: 300

E: 400

9. Which of the following gives the largest answer?

 $A: 15 \times 16$

B: 12 × 20

C: 27×9

D: 22 X 11

E: 23 × 10

10. Kofi leaves for the shops at 11:23am and returns 2 hours 48 minutes later. At what time does he return?

A: 1:01pm

B: 1:11pm

C: 2:10pm

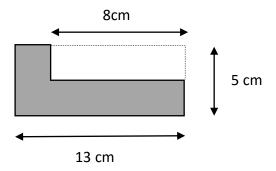
D: 2:01pm

E: 2:11pm

- $A: \frac{1}{2}$
- B: 3/8

- C: $\frac{3}{15}$ D: $\frac{1}{8}$ E: $\frac{1}{15}$

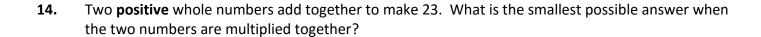
What is the perimeter of the shape below? [Diagram not to scale] **12.**



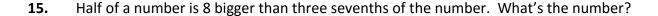
- A: 36cm
- B: 29cm
- C: 26cm
- D: 18cm
- E: More information needed



- A: £4.91
- B: £5.09
- C: £5.91
- D: £5.19
- E: £4.81



- A: 132
- B: 1
- C: 42
- D: 22
- E: 23



- A: 140
- B: 126
- C: 119
- D: 112
- E: 98

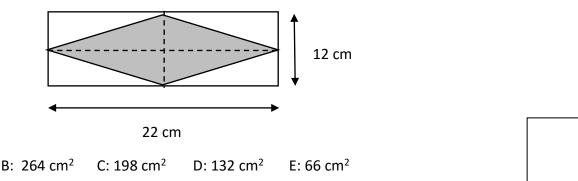


17. The total of five **different, positive** odd numbers is 85. What's the most that the largest number could be?

A: 69 B: 35 C: 25 D: 21 E: 17

18. What is the area of the shaded diamond below? [Diagram not to scale]

A: 34 cm²



19. How many different ways are there of paying exactly 15p using 1p and/or 2p pieces?

A: 2 B: 3 C: 7 D: 8 E: 15

20. I'm thinking of two numbers, one of which is three times as big as the other. When I double one of my numbers and then add it to the other I get 140. Which of the following cannot possibly be one of my numbers?

A: 20 B: 28 C: 50 D: 60 E: 84

21. Complete the missing numbers in each of the number sequences below:

a) 28, 25, 22, ____, 13, 10.

[1 mark]

b) 3, 4, 6, 9, 13, ____, 31

[1 mark]

c) 5, -10, 20, ____, -160, 320

[1 mark]

[2 marks]

a) What	s the remaind	ler when 247 is	s divided by 7?	www.mymarrscloud.
				[1 mark]
Answer:	e following list	t of fractions in		[2 marks]
c) Put the		of fractions in	order, starting with the sm	
c) Put the	e following list			
	e following list			

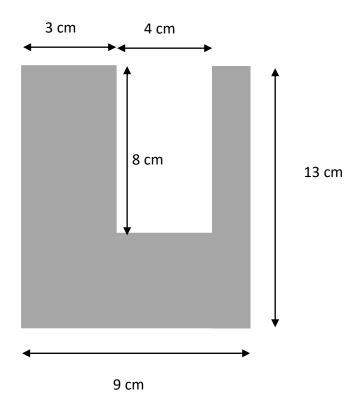
23.

The diagram below shows part of a train timetable: 25.

	Operator Notes	GW	GW	SW ★	GW	GW	sw ★	GW	SW H★	sw ★	GW	SW H★	sw ★	SW *
Reading	d	0434	0524	0539	0554	0606	0609	0634		0639	0704		0709	0721
Earley	d			0544			0614			0644			0714	
Winnersh Triangl	e d			0546			0616			0646			0716	
Winnersh	d			0548			0618			0648			0718	
Wokingham	d	0443a	0533a	0553	0603a	0615a	0623	0643a		0653	0712a		0723	0730
Bracknell	d			0559			0629			0659			0729	0736
Martins Heron	d			0602			0632			0702			0732	0739
Ascot	d			0607			0637		0656	0707		0726	0737	0744
Sunningdale	d			0610			0640		0659	0710		0729	0740	0747
Longcross	d													
Virginia Water	а			0619			0649		0708	0719		0738		0755
Egham	a			0623			0653		0712	0723		0742	0750	0758
Staines	a			0628			0658		0717	0728		0747	0755	0804
Ashford	a			0636b			0711b		0721	0741b		0751	0811b	
Feltham	a			0635			0705		0725	0735		0755	0802	0811
Hounslow	a			0646c			T		0737c	1			0812c	- 1
Twickenham	а			0640			0710		0733	0740		0803	0809	0817
Richmond	a			0645			0715		0737	0745		0807	0813	0823
Putney	a			0651			0721		0759e	0804e			0829e	
Clapham Junction	a			0656			0726		0746	0753		0816	0822	0832
√auxhall	a			0711h			0741h		0752	0811h		0822		0838
London Waterloo				0707			0737		0759	0806		0829	0836	084
	- Ci			0.01			0.01		0.00	0000		3020	5000	001

kenham	a	0640	0710	0733	0740	0803	0809	0817
mond	a	0645	0715	0737	0745	0807	0813	0823
ey	a	0651	0721	0759e	0804e		0829e	0834e
ham Junction	a	0656	0726	0746	0753	0816	0822	0832
hall	a	0711h	0741h	0752	0811h	0822		0838
ion Waterloo	a	0707	0737	0759	0806	0829	0836	0846
Answer:		548 from Winner				1?	[1 m	nark]
Answer:			•••••				[2 m	narks]
-	· ·	nd needs to be ir is house to Earley						
Answer:							[2 m	narks]

[2 marks]



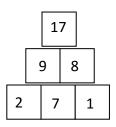
(Diagram not to scale)

Answer:.....

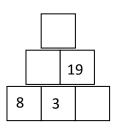
[3 marks]

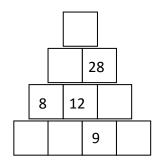
		ether h. narhs
28.	Imran notices that when he takes the digits of the number 652 and multiplies them tog 60.	ether h. Marting
	a) How many three digit numbers are there whose digits multiply to give 60? Write do ones you can find.	wn all the
	Answer:	[2 marks]
	b) What's the biggest three digit number whose digits multiply together to give 40?	
	Answer:	[2 marks]
	c) Imran says he has found a three digit number whose digits multiply together to give carefully why he must be wrong.	65. Explain
		[1 mark]

The diagram below is made using the following rule: the number in each square is the total of the two squares below it: 29.



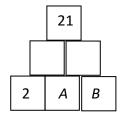
a) Complete the diagrams below using the same rule.





[3 marks]

- b) The same rules are used in the diagram below. Also:
 - A and B are positive, whole numbers
 - A is bigger than B



What are the possible values of A and B?

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End of Questions

Please go back and check your answers