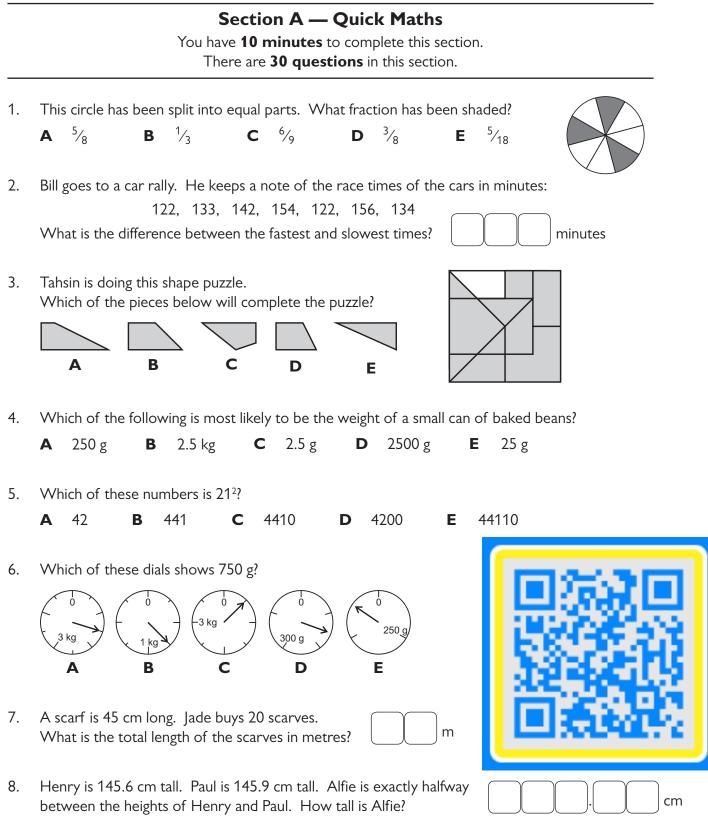
Sample 11+ Assessment Test — Maths

Allow 10 minutes to do Section A and 25 minutes to do Section B. Work as quickly and as carefully as you can.

If you want to answer these questions in multiple-choice format, use the separate multiple-choice answer sheet. If you'd prefer to answer them in standard write-in format, either write your answers in the spaces provided or circle the correct answer from the options \bf{A} to \bf{E} .



Carry on to the next question \rightarrow \rightarrow

9.	Sarinder asked her classmates what their favourit	e pet was.
	She recorded her results in the pictogram.	$\bigcirc \bigcirc$
	How many more people liked dogs than fish?	

Cat	
Dog	
Fish	
Mouse	

🖱 = 4 people

10. Elsa has a bag of sweets containing 7 chocolates, 8 toffees and 3 liquorice laces. She takes out 2 sweets at random and eats them. They are both chocolate. What fraction of the sweets left in the bag are toffees?

D $\frac{3}{8}$

4/9

E

C $\frac{1}{3}$

- 11. Ben reflects the triangle shown on this graph in the *y*-axis. What are the coordinates of the reflection of point A?
 - A
 (3, 2)
 C
 (1, 4)
 E
 (2, 2)

 B
 (-2, -2)
 D
 (3, 0)

B $\frac{1}{2}$

1/4

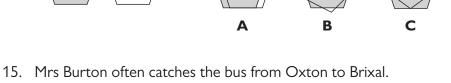
Α

- 12. Eloise, Lucinda and Jennifer are given £150 by their aunt. They are told to share it in a 5:3:2 ratio. How much money will Lucinda receive? \pounds
- 13. Where does the number 26 belong in this sorting table?
 - **A** top left-hand box

2

- D bottom right-hand boxE none of these
- **B** bottom left-hand box
- **C** top right-hand box

14. David has a shaded pentagon and a clear pentagon as shown below. He reflects the clear shape in a horizontal mirror line and places it on top of the shaded pentagon. Which of these shapes could be the shape David makes?



	Oxton	09:44
Sometimes she takes Bus A, and sometimes she takes Bus B.	Lymson	09:52
How long does the longest bus ride take? minutes	Barraw	10:3 <i>′</i>
	Brixal	10:56

	Bus A	Bus B		
Oxton	09:44	11:39		
Lymson	09:52	11:45		
Barraw	10:31	12:16		
Brixal	10:56	12:48		

E

16. Which of these calculations will give an odd number as the answer?

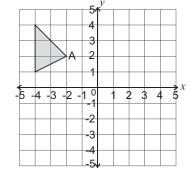
A 113 × 115 **B** 142 × 623 **C** 436 × 812 **D** 147 + 189 **E** 672 + 998

17. Ten children in Class 6 were asked to give their favourite colour. The results are written in this list: red, blue, green, silver, purple, red, gold, gold, green, red

What is the most popular colour?

Α	Red	В	Blue	С	Green	D	Silver	Е	Purple	F	Gold
							Carry or	n to t	he next que	estion	$\rightarrow \rightarrow$

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	Even numbers	Odd numbers
Multiples of 3		
Multiples of 7		

n

18. The table shows the number of prizes won by Ester at Bingo in a week. Ester won 32 prizes altogether. How many prizes did she win on Thursday?

_	\neg	
_		

Day	Number of prizes				
Monday	5				
Tuesday	8				
Wednesday	4				
Thursday					
Friday	6				

19	Which o	f the	following	statements	is	true?
12.	V VIIICII O	гине	IONOWINg	statements	15	uue

Α

12SC

A $\frac{7}{100} > \frac{3}{4}$ **B** $\frac{7}{100} > 0.65$ **C** $\frac{7}{100} > 0.09$ **D** $0.65 < \frac{3}{4}$

B S + 5C

D

5SC

E

S + 60C

E 0.65 < 0.09

20. Lemone is opening up a plant stall in the market. She buys the stall for $\pounds S$ and boxes of cactus plants for $\pounds C$ each. Each box contains 12 cactus plants and Lemone buys 60 cactus plants altogether. Which expression shows the total cost in pounds?

SC + 12

C

21. The arrow on the spinner is pointing at number 1. Charlotte spins the arrow round 315° anti-clockwise. Which number is the arrow pointing at now? 22. Bernard is running from Land's End to John O'Groats. The distance is 874 miles. If he runs 25 miles a day, how many days will it take him to run the distance? **B** 27 **A** 36 **C** 32 **D** 35 **E** 26 23. The diagram shows a rectangular flag. It is split into four equal rectangles. What is the area of the shaded rectangle? 4 cm cm² 6 cm

24. Hannah has 23 bags of sweets which each contain 14 individual sweets. She has 322 sweets in total. Jake has 46 bags of sweets. Each bag contains 140 individual sweets. How many individual sweets does Jake have in total?

B 3220 **C** 64 400 **D** 6440 **A** 1288 **E** 12 888

- 25. Penny has a drawer containing 36 socks. $\frac{2}{3}$ of them are white socks. How many white socks are in the drawer?
- 26. Which expression gives the *n*th term of this sequence?

-1, -1, -1, -1, -1 n-1 **C** n^2-n **D** n-(n+1)E $(n-1)^2$ 2n - 3Δ

27. Julie divides a bag of 70 carrots between some rabbits. Each rabbit has exactly the same number of carrots. Julie doesn't have any carrots leftover and doesn't divide any whole carrots. How many rabbits is it possible for Julie to have fed?





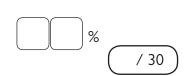
28. The grid shows a small island. Adam goes for a walk starting at (-1, -2). He travels four squares north and two squares east. What are the coordinates of the point that he reaches?

A (-3, 2) **B** (-2, 2) **C** (0, 3) **D** (1, 2) **E** (1, 3)

29. Jemima wants to plant a number of plants, p, and a number of trees, t. The area she needs can be written as 3p + 18t. Which expression below is equivalent to Jemima's expression?

A 3(6pt) **B** 6(p+3t) **C** 21p-3t **D** 3(p+6t)

30. 50 people were asked what colour their car was. 16 people said blue. What percentage of people did not say blue?



 $2p + p + 3t^2$

Ε

 $5x^{V}$ N 3 2 -5 -4 -3 -2 -1 0 1 2 3 4 5 -2 34

4

Section B — Long Maths You have **25 minutes** to complete this section. There are **30 questions** in this section.

The price of board games in a shop is shown in the table.

Jack gives the shopkeeper £30.00 and gets 50p change. Which games could he have bought? 1.

Blocks	Trivia Time	Clueless	Scramble	Brainium
£12.50	£10.50	£6.50	£11.50	£9.50

E

Scramble, Blocks and Trivia Time Α

- B Clueless, Brainium and Trivia Time
- С Blocks, Clueless and Trivia Time
- 2. lill buys 2 copies of Brainium and 3 copies of Trivia Time. She pays with 3 £20 notes. How much change will Jill receive?
- 3. Lucy has some paper circles and some paper squares which she uses to make a rocket. The squares have sides of 4 cm and the circles have areas of 10 cm^2 . She cuts some of the shapes in half. What is the area of her rocket?

Moses is tiling his rectangular bathroom floor.

- Each tile is 0.04 m^2 and he uses 100 whole tiles to cover the entire floor. 4. If the width of his bathroom is 1 m, what is the length of his bathroom?
- 5. Moses plans on using 2 different types of tiles on his bathroom floor. 55% of the tiles will be white and 45% will be black. Write the ratio of white to black tiles in its simplest form.
- What is the total area of the bathroom floor that 6. will be covered with black tiles?
- 7. Fiona arranges 6 equilateral triangles to make the shape shown. What is the size of the shaded angle?

Lisa, Amy and Louise all collect handbags.

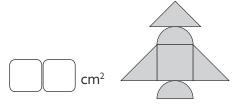
- Lisa has H handbags, Amy has H + 2 handbags and Louise has 8. 2H handbags. Altogether, Lisa, Amy and Louise have 26 handbags. How many handbags does Louise have?
- 9. Georgina has three times as many handbags as Amy. Which expression correctly expresses the number of handbags Georgina has?

C 3H + 6**A** 3H + 2**B** 3*H* **D** 3H + 3**E** 3(H+6)



D Scramble, Blocks and Clueless

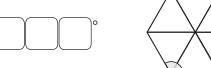
Scramble, Clueless and Trivia Time













Carry on to the next question $\rightarrow \rightarrow$



11. 40 girls and boys played in a football tournament. The number of goals scored and saves made during the tournament were recorded in the table. How many saves were made in total?

Bill is filling a large packing box with small match boxes. The packing box measures 50 cm \times 20 cm. The matchboxes measure 5 cm \times 2 cm \times 1 cm.

12. How many matchboxes can he fit in the packing box?

6

- 13. Each match box contains 25 matches in total. How many matches are in the packing box if it has been completely filled with match boxes?
- 14. Raj is buying 2 family tickets for a concert. How much does he spend?

Sherrie is hosting a party for 24 children and 7 adults.

- 15. Sherrie buys 3 sausage rolls for each child and 5 sausage rolls for each adult. If the sausage rolls come in packets of 25, how many packets will Sherrie need to buy?
- 16. Sherrie wants to make some cakes for the party. She needs enough for each adult to have $\frac{1}{7}$ of a cake and each child to have $\frac{1}{8}$ of a cake. How many cakes will she need to bake?
- 17. A plant grows 0.025 m every 6 months. It is 1.5 m tall. How many years will it take to reach 2 m?

Harry wants to paint the side of his house.

- 18. Harry draws the side elevation. The total perimeter is 32 metres. What is the length of X?
- 19. What is the area of the side of his house?
- 20. Harry uses 3 litres of red paint, 4 litres of blue paint and 5 litres of white paint to paint the side of his house. What percentage of the paint was red?

<u>Concert Tickets</u> Adults £3.50 Children £1.50 20% discount for family ticket (2 adults and 2 children)





1 m [

Х

%

m

m²

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6 m

4 m

7 m

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Carry on to the next question \rightarrow \rightarrow



Boys

4

Total

44

Girls

14

24



Goals

Saves

Total





21.		0		d in the <i>y-a</i> ew coordir		of point P?	?				y 5↑ 4 2
						-		(3, -3)	Е	(1, -2)	
22.				sequence v two terms				+ 1.			$-5 -4 -3 -2 -1 0 1 2 3 4 5^{-1}$
	Α	1, 3	В	4, 13	С	7, 13	D	10, 37	E	4, 7	-4
23.								mouse eat es Imani ha		t?	cm ³
Bria	n is n	naking a p	ben fo	r his sheep	in th	e shape of	a reg	ular pentag	on.		(2x - y) m
24.		0		the is $(2x - y)$ ter of the	,	0	x and	d <i>y</i> ?			$\langle \rangle$
	A 8	3x - 4y	В	(2x - y) +	5	C 5 <i>x</i> -5	Бу	D 10 <i>x</i> –	5 <i>y</i>	E 2 <i>x</i> ·	+ 5 <i>y</i>
25.	Wh	at is the p	perime	eter of the	pen i	f <i>x</i> = 10 ar	nd <i>y</i> =	= 2?			m
26.			•	n is 555 m ² can Brian fi			led fo	r every 3 sł	neep.		
27.		diagram at is the s		s three of 1 angle <i>a</i> ?	he ar:	ngles on a l	kite.			o	
28.				olate bars much doe:				igs of peani	uts		X
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				s of water. ses 50 ml c				the botton	n of tł	ne	
29.	Hov	w many h	ours	will it take f	or the	e barrel to	comp	pletely emp	ty?		hours
30.	barr	rel so no v	water	stopper o is lost fron to complet	n it. l	How much	long	e bottom of er will it	the		
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											Total / 60
											End of Test
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