## **Assessment Test 1**

The rest of the book contains four assessment tests to help you improve your maths skills.

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Fact test is divided into two parts. Section A is the 'quick maths' section — the questions here are questions are more complex, but there's more time to answer them.

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Work as quickly the work a

Section A — Quick Maths You have 10 minutes to complete this section. There are 30 questions in this section. Rose measures the height in cm of a plant against the ruler to the right. She marks the height with an X. How tall is the plant? cm Kylie has a mirror which is shaped like a regular hexagon, as shown to the right. What is the size of angle y? **B** 60° C 120° D 90° E 175° A 180° 3. Jeff thinks of a number which can be expressed as  $6 \times 2 + 12$ . Which of the following expressions gives the same answer?  $\mathbf{C} \quad 3 \times 7$  $\mathbf{B} \quad 3 + 11 \times 2$  $A 48 - 8 \times 3$ 4. James saves the following notes and coins from his pocket money. How much has he saved altogether? All angles At least two 5. Which of the following shapes could only different angles equal go in the region labelled X? At least two sides equal A rhombus scalene triangle D All sides X isosceles triangle B kite E different lengths regular pentagon 6. A bag of fruit costs 99p. How much will 9 bags of fruit cost? 7. What is 45.952 rounded to the nearest tenth?

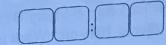
Chris has a dentist appointment at ten to five in the afternoon. What is the time of his appointment on the 24-hour clock?

C 45.95

A 45.9

R

46.0



45.10

E

45.96

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

Bethany cuts her birthday cake into 20 equal slices. She gives out 16 slices to her friends. What fraction of the cake does Bethany have left? 9.

C

E 3/5

10. Anna has a book with 1897 pages. Round the number of pages to the nearest ten.

11. An engineer charges a customer £50 for every job and £25 for every hour that he works. Which formula could you use to find how much he charges in pounds, C, for h hours of work? **B** C = 50 + 25h **C** C = 50h - 25

 $A C = 50 \div 25h$ 

**D** C = 25 + 50h

E C = 50h

12. 24 children want to go camping. 5 children can sleep in each tent. How many tents do they need?



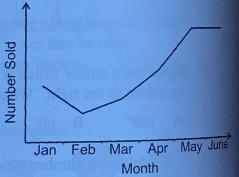
13. What is the missing number in this equation?

× 6 2808 + 2808 + 2808 =



14. The graph to the right shows how many of a particular board game have been sold each month over a 6 month period.

	Jan	Feb	Mar	Apr	May	June
Ant Alliance	50	25	10	5	20	45
Bee Bash	45	40	35	30	20	20
Croc Chase	20	10	15	25	40	40
Dodo Detective	30	35	30	35	30	30
Emu Escape	15	20	25	30	40	40

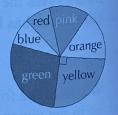


Using the information in the table, which of the games could the graph correspond to?

- Ant Alliance
- C Croc Chase
- E Emu Escape

- B Bee Bash
- D Dodo Detective
- 15. This pie chart shows the colours of the sun hats worn by 36 children. Find the number of children wearing yellow hats.





16. Johnny has a ten pound note. He spends £8.93. How much does he have left?



17. Year 5 and Year 6 are split into red, yellow and blue teams. The number of points won by each team are shown in the table. How many points did the blue team win in total?



- Year 6 Year 5 **Team** 50 27 Red 25 32 Yellow 30 Blue 105 90 Total
- 18. A packet of 6 Milky Bears normally costs 40p. They are on special offer at 10% off. What is the cost of one milky bear?

Carry on to the next question

B C D D	of the following standard of the spinner in the ratio of spotty self-the spinner is shad for every white segments 20% of the segments	ded with a spotty parent there are three are black.	egments is 2: eattern. e spotty segm	1. ents.	r is correct?
20. Whic	th two shapes on the	C 1 and 6	least one righ	t angle?	$\left(1\right)\left(2\right)\left(3\right)$
A B	1 and 2 3 and 5	<b>D</b> 5 and 6	L	2 and 4	4 5 6
21. Laur	a gained the followir	ng marks in her exa	ams.		
47	55 42	41 38	63 62	73	
Whi	ch scores are prime r	numbers?			
A B	47, 41, 63 and 73 47, 58 and 62	C 47, 55, D 47, 41 a	41 and 73 and 73	E 4	2, 58 and 62
22. The	rectangle on the coo 2 units down. What	are the new coord	yed 3 units to inates of its co	the right orners?	y <sub>7</sub> 6 * *
A	(3, 6), (6, 6), (6, 2), (6, 3), (6, 6), (2, 6),				5
B	(5,6), (8,6), (8,2),				3 2 ***
D	(5,4),(8,4),(8,0),	, (5, 0)			1
E	(4,3), (4,7), (7,7),	, (7, 3)			0 1 2 3 4 5 6 7 8
23. He	ere are the shoe sizes of 6 6 7 5		t a party. Wh	at is the me	an shoe size?
	0 0 7 3	7 0 3			
24. Th	nis honeycomb pattern	n is made up of reg	ular hexagons	S	
Ca	ne length of each side alculate the distance a	of the hexagons is round the outer ed	2 cm. ge of this patt	ern.	cm
th	he table shows part of ritten on a tin of fruit. he tin of fruit. How marbohydrate did Amrit	Amrit eats <sup>3</sup> / <sub>4</sub> of		g	Per ¼ tin Protein 0.4 g Carbohydrate 12.2 g Fat 0.1 g Fibre 1.2 g
a	A train timetable is shown train timetable is shown that the first of	available train			Colwyn Gardens         08:50         09:10         09:30           Chapel Street         08:55         09:15         09:35           Bispham         09:06         09:26         09:46           Torsway         09:17         09:37         09:57           Lanston         09:45         10:05         10:25
	Robert has two identics shown, marked X. He on a grid. Circle the seemade without overl	arranges the tiles		A S	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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

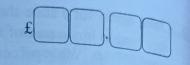
50				· · · and	a differ	ent des	ssert ea	ch weekd	ay.		Pie	
28	A shop	sells a di	fferent	t pie and	ates apr	ole des	sserts.	ch weekda On what		Monday	hoos	Dessen
20.	Dan onl	y likes m	leat pi	es. ne i	both th	e pie a	and des	On what sert on off $\mathbf{E} = \frac{5}{3}$	er?	Tuesday	mushroom chicken	lemon cake
	fraction	of the da	iys wil	II ne like	, 000		1,	E 5/2	1000	Wednesday	chicken	LIG CLAIM
		R	3/5	C	5/2	D	/2	E 5/3	too or	Thursday Friday	cheese	apple pie trifle
	A $\frac{2}{5}$	ь	, ,						5716 241	riluay	lamb	carrot cake
								't has dro	nnad			- dke
		Jay the t	emner	ature is	1 °C. B	y Wed	nesday	it has dro	ppeu			
29.	On Tues	day the to.  The ter	nnerat	ture drop	os by twi	ice as	much f	rom Thursday	, 9	-	°C	
	to -2 °C	. The ter	ursda	v. What	is the te	mpera	iture on	Thursday	•			
	Wedneso	day to 11	Carbon									
20	Tora 1150	s this net	to ma	ake a 3D	shape.	1 13	7	A	ni pri	X		
30.	Which o	orner wi	Il touc	h the co	rner mai	rked X		В	-5.6.	_		
	when the	e net is fo	olded?							E		
	A			D	E			C	Jeans :	D		( /30
	A						10 22	ek 3		PR 1 17	19, 78	
		All he			7 43	D	Long	Maths				4
					Section	D -	to come	date this s	ection			
			808-	You have	e 25 mir	lutes	tions in	olete this s this section	on.	no odkao s		
				The	re are 30	quesi	110118 111	tills secti		SELVY SELVE	) eskin X i	
			18									
Inel	is shopn	ing for fi	ruit at	a greeng	grocers.							
	To al vivoi	che a has	sket co	ontaining	g 7 peacl	nes, as	5					AN G
1.	-1. avvvn 0	n the rio	ht Ea	ach peac	h weighs	S 200 E	<b>5</b> ·			kg		
	How ma	any kilog	rams (	does the	basket v	veigh?			)		E	
2.	Toel exc	hanges th	hree o	f the pea	iches for	three	apples.					2.300 kg
۷.	Doch on	nla weig	hs 3/1 t	he weigh	nt or one	peaci	1.				kg	
	What is	the new	weigh	t of the l	basket ar	nd its	contents	5?	<u>_</u>		Ng	
										1.		
Roo	er and A	ndv take	part in	n a long	jump co	mpetit	tion. Th	ney have s	ix jum	ips each.		
The	v record	all their j	umps	in metre	s in the	table b	below.					
	7 100010		-									
		1		THE RESERVE THE PERSON NAMED IN		3	4	etura sii	5	6		
	Poger	5.30		2	101301				<b>5</b> 5.05	4.70		
	Roger Andv	5.30		THE RESERVE THE PERSON NAMED IN	4.	3	4	0				
	Andy	5.30 5.25		<b>2</b> 4.75 5.00	4.	75	5.1	0	5.05	4.70		
3.	Andy What is	5.30 5.25 the differ		2 4.75 5.00 between	4. 4. Andy's	75	5.1	0	5.05	4.70		
	Andy What is	5.30 5.25		2 4.75 5.00 between	4. 4. Andy's	75	5.1	0	5.05	4.70		
3.	Andy What is longest	5.30 5.25 the differ jump and	l his sh	4.75 5.00 between hortest ju	4. Andy's amp?	3 75 90	5.1	0	5.05	4.70		
	Andy What is longest	5.30 5.25 the differ	l his sh	4.75 5.00 between hortest ju	4. Andy's amp?	3 75 90	5.1	0	5.05	4.70	m	
3.	What is longest	5.30 5.25 the differ jump and	l his sh lid Ro	4.75 5.00 between hortest ju	4. Andy's amp?	3 75 90	5.1	0	5.05	4.70	m	
3.	What is longest	5.30 5.25 the differ jump and	l his sh lid Ro	4.75 5.00 between hortest ju	4. Andy's amp?	3 75 90	5.1	0	5.05	4.70	m m	
<ul><li>3.</li><li>4.</li><li>5.</li></ul>	What is longest Which of What is	5.30 5.25 the differ jump and distance of Andy's n	l his sh did Rog nean d	4.75 5.00 between hortest ju ger jump listance?	4. Andy's amp?	3 75 90 ften?	5.1	0005	5.05	4.70	m m	
3.	What is longest Which of What is	5.30 5.25 the differ jump and	l his sh did Rog nean d	4.75 5.00 between hortest ju ger jump listance?	4. Andy's amp?	3 75 90 ften?	5.1	0005	5.05	4.70	m m m	
<ul><li>3.</li><li>4.</li><li>5.</li><li>6.</li></ul>	What is longest. Which of What is How mu	5.30 5.25 the differ jump and distance of Andy's nuch further	did Rog nean d	4.75 5.00 between hortest juger jumplistance? Roger's	4. Andy's amp? o most of	3 75 90 ften?	5.1 4.9	dy's?	5.05 4.80	4.70	m m m	
<ul><li>3.</li><li>4.</li><li>5.</li></ul>	What is longest Which of What is How mu	5.30 5.25 the differ jump and distance of Andy's nuch further thinks of a	did Rog nean d er was	4.75 5.00 between hortest juger jumplistance? Roger's	Andy's amp?  o most of longest justiplie	3 75 90  ften?	than An	dy's?	5.05 4.80	4.70	m m m	
<ul><li>3.</li><li>4.</li><li>5.</li><li>6.</li></ul>	What is longest Which of What is How mu	5.30 5.25 the differ jump and distance of Andy's nuch further thinks of a	did Rog nean d er was	4.75 5.00 between hortest juger jumplistance? Roger's	Andy's amp?  o most of longest justiplie	3 75 90  ften?	than An	dy's?	5.05 4.80	4.70	m m m	J.O
<ul><li>3.</li><li>4.</li><li>5.</li><li>6.</li><li>7.</li></ul>	What is longest. Which of What is How mu. Adam the by 2. How must be desired.	5.30 5.25 the differ jump and distance of Andy's nuch further inks of a fe ends up	did Rog mean d er was a numb	4.75 5.00 between hortest juger jumplistance? Roger's Der. He it 131. Will	Andy's amp? o most of longest justiplie hat was t	3 75 90  ften?  jump tes it bythe nur	than And 8, adds mber he	dy's?	5.05 4.80	4.70	m m m	J.O
<ul><li>3.</li><li>4.</li><li>5.</li><li>6.</li></ul>	What is longest. Which of What is How mu. Adam the by 2. How has a second to the control of the	5.30 5.25 the differ jump and distance of Andy's nuch further hinks of a fe ends up dripping	did Roger and deer was a number with	4.75 5.00 between hortest juger jumplistance? Roger's Der. He 1131. Will at a rate	Andy's amp?  o most of longest production was to so the control of	3 75 90 ften? jump t	than An 8, adds mber he	dy's?	5.05 4.80	4.70 5.10 ides	m m m	J.O
<ul><li>3.</li><li>4.</li><li>5.</li><li>6.</li><li>7.</li></ul>	What is longest. Which of What is How mu. Adam the by 2. How has a second to the control of the	5.30 5.25 the differ jump and distance of Andy's nuch further inks of a fe ends up	did Roger and deer was a number with	4.75 5.00 between hortest juger jumplistance? Roger's Der. He 1131. Will at a rate	Andy's amp?  o most of longest production was to so the control of	3 75 90 ften? jump t	than An 8, adds mber he	dy's?	5.05 4.80 4.80 en div	4.70 5.10 ides	m m m m	
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coordinates of the point her route takes her to?

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

works for a shoe snop and is given a discount card. Jane uses  51
her card to What percentage discount does she receive?
cost 2  mile has a collection of the following shapes.
What is the ratio of circles to squares?  Express the ratio in its simplest form.
What is the ratio of grey squares to white squares?  Express the ratio in its simplest form.
What fraction of the shapes are white circles?
$\mathbf{A} \stackrel{3}{\cancel{4}} \mathbf{B} \stackrel{4}{\cancel{5}} \mathbf{C} \stackrel{1}{\cancel{4}} \mathbf{D} \stackrel{1}{\cancel{2}} \mathbf{E} \stackrel{1}{\cancel{5}}$
Eve is baking cupcakes using the ingredients on the right.
13. Eve needs to make exactly 40 cakes.  How much butter, in grams, will she need?  g
14. Eve has 1.4 kg of flour. If she uses all of the flour, and assuming 150 g butter
she has enough of the other ingredients, what is the largest humber of cupcakes she could make?
Each child in Ella's year group was asked to pick their favourite fruit. The results were collected in a bar chart.
15. How many more children chose plum than chose pear?
16. Which fruit is half as popular as pear and apple combined?  A Orange B Peach C Plum D Banana  A Orange B Peach C Plum D Banana  Number of Children
17. A shop has an offer on greetings cards. You can buy 3 boxes of 20 cards for the price of 2 boxes. A box costs £3.90. Bella buys 6 boxes in the offer. She also buys a box of 12 envelopes for £1.80. How much does she spend in total?
Kaye follows a route from point A on the grid.  N 4
18. She walks 1 square north then 2 squares east.  What are the coordinates of the point her route takes her to?
From her new position, Kaye walks 2 squares  South and there
coordinates of the point her route takes her to?  Carry on to the next question → Assessment Test 1
Assessment

20. Amanda has some pocket money. She spends 60% of it and is left with £6.00. How much money did she start off with?



21. Kate starts out on a 135 km journey at 8:50 am. She travels on average at 60 km per hour. What time does she arrive at her destination? Write your answer using the 24-hour clock.



22. A number is written on each face of the triangular-based pyramid shown on the right. The mean of the numbers is 4. Which of these could be the two hidden numbers?



- A 2 and 4
- **B** 1 and 2
- C 2 and 5
- **D** 1 and 5
- E 1 and 4



23. Toby has 4.4 litres of lemonade, 900 millilitres of lime juice and 2.8 litres of orange juice. He mixes them together in a bucket. How many litres of liquid is in the bucket?



24. Juliet is converting her exam results into percentages from fractions. She scored 17/20 in her English test. What is this as a percentage?



25. Use the formula below to find the size of angle m if  $n = 46^{\circ}$ .

$$m = (180 - n) \div 2$$

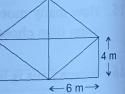
$$m = \bigcap_{i=1}^{n} \bigcap_{j=1}^{n} \bigcap_{j=1}^{n}$$



The playground at Jay's school is made up of six identical right-angled triangles.

26. What is the area of the playground?

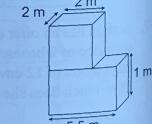




27. How many lines of symmetry does the playground have?



28. Jay's school are building this climbing frame on the playground. The frame is built of a wooden cube on top of a cuboid. What is the total volume of the frame?



Bobby's school have been collecting 2p coins for charity. They count the coins into £1 piles.

29. Bobby decides to check the £1 piles are correct by weighing them. Each coin weighs 7.5 g. How many grams should each pile weigh?



30. Bobby's school aim to raise £200. If they achieve their target, how much will it weigh in total, in kg, if all money raised is in 2p coins?

