

ACADEM ALENT PO Name: . .

Year Group:.....

MATHEMATICAL REASONING



Α		Answer	С		Answer
1	7 + 5 + 8 =		1	What is the 12 th letter of the	
2	17p - 9p =	p	2		
3	1 hr =	mins	Z	Jessica cuts it into three pieces.	
4	½ of 16 =			How long is each piece?	CM
5	Three 2ps =	p	3	How many weeks are there in 21	
6	15 ÷ 2 =		4	adys:	WEEKS
7	9cm + 3cm = 4cm +	CM	4	What is the total of three 2ps and three 5ps?	ps
8	3 times 4 =		5	What is the difference in length	
9	2 + 6 = 4			shortest line?	
10	What time is two hours later?			4cm	
				8cm	
	$ \begin{pmatrix} 10 & 2 \\ 9 & 3 \\ 8 & 4 \end{pmatrix} $	O'clock		2cm	CM
	7 6 5		/	Sauch hung a tau far 5a. Sha har	
В		Answers	0	6p left. How much money did	
1	1hr = 45 min +	mins	_	she have at the start?	ps
2	How many 5ps are worth 35p?	5ps	/	Michael shares 17 sweets with his three friends. How many sweets	
3	Four times the value of a number is			are left behind?	Sweets
4	And shares 24 substational horizon his		8	Twelve biscuits are taken from a box of twenty. How many are	
4	three friends. He eats the rest			left behind. Write your number as a word.	Biscuits
	himselt. How many sweets are lett for him to eat?	sweets	9	9 times 3 =	
5	How many metres are there in 1 km?	m	10	How many 2, 5 and 10p coins	
6	How many halves are there in 13			do you need to make 27p?	
7	whole ones:	naives		A PEAC RUE	2ps
/	Increase 28 by 6				
8	What is the sum of three 2ps and three 5ps?	ps		2018.57	5ps
9	1⁄4 of 24			The second	10ps
10	½ of 1 km	m		Line San Sec. 199	

Α		Answer	С		Answer
1	½ of 36 =		1	James is 9. How old will he be in 8 years' time?	
2	10p + 7p + 5p =	p	2	What number must be added to	
3	Nine 2ps = one 10p +	p	~	8 to make 20?	
4	12 ÷ 2 =		3	How many 10ps have the same	
5	$\frac{1}{4}$ of two hours =	mins		5p 5p 5p	
6	7 + 8 = 10 +				1000
7	9cm x 3cm = 12cm +	CM		2p 2p 1p	lops
8	3p + 9p - 5p =	p	4	Ali had 63p, he gave a third of his money to Alan. How much has	ps
9	14 ÷ 2 = 14 -			he got left?	
10	15p - = 8p	p	5	Which of these shapes is:	a
				a. A square? b. A rectangle?	b
				X W R V	~
			6	What is the sum of even numbers	
В		Answers		between 7 and 11?	
1	Multiply 6 by 9		7	What is the total length of the eight strips like this?	CM
2	Divide 27 by 3			ст	
3	Write down the sixth month of the year?		8	How many 4p pencils can be bought with two 10p, one 20p	
4	Find the sum of 2 10p and four 5p			and three 5p coins?	
	coins.	ρ	9	What four coins altogether equal to 180?	p
5	Write the time "quarter to one" in digit form.				р
6	One quarter of 24 is?		10	Write the time in digital form.	
7	Subtract 17p from 25p.	p		Use a.m. or p.m.	
8	How many half-metres together measure 4 and a half metre?			10 2	
9	8 x 3 = 30 -			9 1 3	
10	What is the total value of 6p, 3p and 8p?	qp		K.8.4.1 Morning	

A		Answer	С		Answer
1	Five 2ps = one 2p and 1ps	1ps	1	Write this date using digits only.	/ /
2	¹ / ₄ hour + 20 mins =	mins		Fourth of April 2019	//
3	9 + 7 - 8 =		2	Which number is ten times greater	
4	a. 1/=	a ml	2	Find the change for the 5pc	
	b. 1/4 / =	b ml	5	and two 2ps after spending 20p.	p
5	15p - 6p + 3p =		4	Which number is mid-way	
6	+ 14 = 21		F		
7	12p - 2p = 7p +	p	С	what traction of the circle is shaded?	
8	$3kg \times 5 = 9kg +$	kg			
9	17 - = 11				
10	$10 \div 2 = 40 \div$				Cm
			6	19 Children are asked to stand	Cili
			0	in groups of seven. How groups	
В		Answers		will there be?	
1	Multiply 7 by 3	·····	7	Find the difference between two sweets costing 2p each and	p
2	Write the time quarter past seven in digit form.			three costing 1p each.	
3	Decrease 27p by 13p.	р	8	Choose a time, write it in digit form and draw it on the clock.	
4	Five groups of 3, three groups of 5				
	and two groups of 10. How many altogether?			$\begin{pmatrix} 10 & 2\\ 9 & 0 & 3 \end{pmatrix}$	
5	How many metres is?			$\begin{bmatrix} 8 \\ 7 \\ 6 \end{bmatrix} = 5^{4}$	
	a. 300cm b. 450cm	am	9	What is the length of the following	
6	What is one-third of sixty-three?			line if one cm represents 3cm?	CM
7	Find the sum of $4\frac{1}{2}$, $5\frac{1}{2}$ and 4.				
8	Subtract 9 from 37.		10	Which pairs ot number multiply together to give 42?	C
9	3 - 1/3 =			6 5 14	& د
10	Which three coins altogether make	p		3 7 8	©
	12p.	р р			
			L		

Α		Answer	С		Answer
1	Round 23 to the nearest 10.		1	Which coin is worth 20 times more than 50?	
2	20 x 3 = 12 x		2	Which two coins are given in	
3	21 - 8 = 9 +		~	change after spending 35p from	p
4	¹ ∕₂ of 26kg =	kg	3	O_{DD} actively have a mass of 116	ρ
5	Four 5ps + two 2ps = + 12p	p	5	kg. What is the mass of 5 squirrels?	kg
6	7 + 8 = 23 -		4	How many minutes from quarter to	
7	1/3 of an hour + 5 mins =	mins	E	9 to 20 past nine?	mins
8	9 x 7 = 3 x		S	what is the total length of the sides of this rectangle?	
9	2p + 5p + 3p - 1p =	p		-	
10	$4 \times 3 = 4 + 4 +$			2cn	CM
				6ст	
R		Answers	6	What fraction of the rectangle is not shaded? Answer using two	
1	Subtract 8 from the total of 9, 5			different equivalent fractions.	
	and 12.				
2	25 plus 4 minus 9 =		7	How much more do you need to	
3	3 tenth of 60p is	p		make 27p if you already have one 2p coins and three 5p	a
4	How many grams is			coins?	
	a. 1kg b. 2.5kg	d b	8	Candies are priced at 7p for	
5	Find the difference between (3 + 9) and 23			Iollipops. She has 20p, how much more does she need?	ρ
6	How many centimetres is		9	How many children can be given 3 crayons from the box below?	
	a. 3m b. 4.5m	a b			
7	How much less is eight 2ps than four 5ps?	p			
8	Find the value 5 times $3\frac{1}{2}$.			24	
9	How many whole ones is twenty- four quarters?				
10	Find the product of 7 and 8		10	Karen saves 6p each week. How many weeks will it take so save up 42p?	

A		Answer	С		Answer
1	37 - 9 =		1	Write in digits form, the number which is eleven less than a	
2	25p + 6p - 2p =	p		hundred and thirteen.	
3	8 x 3 = 15 +		2	What number is the arrow on the	
4	Nine 10ps = 5ps			number scale pointing to?	
5	12p + 2p + 3p - = 8p	p			
6	9 + 7 = 4 x			0 500	
7	6 + 7 + 9 = 17 +		3	How many 2ps are equal to the	
8	56 ÷ 8 =			value of three 10ps and four 5ps?	2ps
9	1kg 600g =	9	4	In a conference hall 45 chairs,	
10	$7 \times 6 = tens + 2 units$			rest by girls? How many chairs are occupied by the girls?	
			5	How many strips of the given	
				length can be cut from a half- metre strip?	
В		Answers		cm	
1	Find the sum of 15p, 17p and 28p.	p	6	Share £18 between Alice and	
2	What is the difference between 5×7 and 9×5^{2}		0	Daniel so that Alice gets twice as much as Daniel. How much does	
2				Alice?	
3	28p is shared among 7 children. How much do each get?	p	7	By how many metres is 39cm shorter than 1.5m?	M
4	Find the sum of the odd numbers between 23 and 29.		8	Which of the following numbers is nearest to 60?	
5	Subtract 30p for 58p	p		55 56 63 58	
6	How much greater is 5½ than 2 times 2¼?		9	This clock is 13 mins ahead. Write down the correct time in digit firm.	
7	300 + 87 + 9 =			Use a.m. or p.m.	
8	Write the sum of 5 and 3 using roman numbers.			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
9	Find the product of 9 and 8			× 7 6 5 4	
10	What will be the cost of 6 Iollipops if each is priced at 7p?		10	If 29 September is a Monday. What day is 1 st October?	

Α		Answer	С		Answer
1	$9 \times 4 = 3 \text{ tens} + \text{units}$		1	Find the price of $4\frac{1}{2}$ of petrol when $\frac{1}{2}$ costs £1.20.	£
2	Four 5ps - = 13p	p	2	A container stores 1601 of oil The	
3	2p x 15 = 10ps		-	oil I used to fill 8 cans. How much is in each can?	
4	10p x = Eight 5ps + Five 2ps		٦	What is the total distance around	·
5	23 + 35 =		0	the following equilateral triangle?	
6	60p - 37p =	p		\wedge	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
7	410 - 55 =			2.5cm	CIII
8	55 ÷ 11 =		1	How many 20ps are equal to	
9	27 + 19 =		4	twelve 5ps and ten 2ps?	20ps
10	52 ÷ 14 = 7 -		5	Find the sum of following numbers.	
				13 17 23 7 5 19	
			6	This clock is 13 mins slow. Write	
B		Answers		the correct time in digit form. Use a.m. or p.m.	
Ţ	6.3cm is divided in seven equal parts. What is the length of each part?	CM		11 12 1	
2	How many fours equal to 28?			$\begin{pmatrix} 10 & 2 \\ 9 & 3 \end{pmatrix}$	
3	One pen costs 22p. What is the cost of six pens?	p		7 6 5	
4	Find the product of 8 and 9 and then subtract it from 90.		7	What is the cost of one bottle if 15 bottles cost £1.80?	ρ
5	Find the difference between 78p and 49p.	p	8	What is the difference between $1/3$ of 27 and $\frac{1}{4}$ of 16?	
6	Take away 43p from £1.	p	9	Find the length of the line AB.	
7	27 + 19 =			Δ Β	
8	A two-metre rope are divided into 8 equal parts. How long is each part in centimetres?	CM	10	Arrange the following decimals in ascending order.	
9	What is the sum of 17 and 24?			0.2 0.5 0.05 0.51	
10	Ali has 33p. He buys a chocolate costing 79p. How much more does he need to pay for the chocolate?	p			

A		Answer	С		Answer
1	½ hours + 45 mins =	h mins	1	The sum of two numbers is 67. If one number is 43, what is the	
2	32 ÷ 8 =			second number?	
3	1m and 17cm =	CM	2	Alice spent a quarter of his saving on candies. If that quarter	
4	£1.30 - 67p =	p		is 8p then what is his full saving?	p
5	160 + 90 =		3	Put the following fractions	
6	36 ÷ 6 = 2 x				
7	1550ml =	ml		$\frac{1}{10}$ $\frac{1}{5}$ $\frac{1}{10}$ $\frac{1}{6}$	
8	9p x 4 = 10ps + three 2ps	10ps	4	What is the difference between the 3 in 39 than the 3 in 63?	
9	30 + 17 =		5	How many thirds of the following	
10	Five 15p - p = 68	p		circle is shaded?	
D		Answers			
D 1	Write the number 965 to the				
-	nearest hundred.				
2	Take away 9 times 3 from the product of 6 and 8.		6	The price of 4 pens is 28p. What is the price of 8 pens?	ps
3	7 + 250 + 58 =		7	How much change will Sara	
4	What are the next two numbers in			costing 13p each and pays £2?	ps
	150 175 200		8	What will be the total bill if Chris	
				Deed at Druchente Whene	
5	Write 17 in Roman numbers.			Price £0.85 £2.50	£
6	Add a third of nine to a fourth of 16.		9	What is the distance between	
7	What is the answer if 0 and 9 are			point B and E?	
	multiplied together?			A 12km 2km	km
8	What is amount of the money which is 4 times larger than 19p.	ps		C	
9	Subtract 17p from the sum of £1		10	How many complete turns will the second hand take until it's 5:13?	
1.0					
10	How much more is 6 litres than 1.5 litres?				

A		Answer	С		Answer
1	$\frac{3}{4} + \frac{1}{4} =$		1	Find the difference between the number of squares in the following	
2	780 - 360 =			two grids.	
3	65p = 10ps + one 5p	10ps			
4	$17cm + 59cm = \frac{1}{2}m + cm$	CM			
5	1/2 litres - 270ml =	ml	2	If two marbles cost 22p, how	
6	1.25 hours - 35 mins = mins	mins	3	What is the sum of $45 \mod 43$ to	
7	137cm = 1m + cm	CM	3	the nearest ten?	
8	Round 83 to the nearest 10.		4	Following is a table representing	
9	7 x 8 = 40 +			Jon's savings How much more does he need to save if he wants	
10	12 5ps = 10ps	6ps		to 65p.	
				10ps 5ps 1ps 3 4 3	ps
В		Answers	5	A truck uses ½ / of petrol every 5	
1	What is 38 more than 18?			mins. How many literally litres of petrol would it use in one hour?	/
2	One-sixth of a number is 7. What is this number?		6	Put the following fractions in the	
3	What is 4 more than the product of			correct order:	/
	9 and 6?			52392	/
4	Multiply 4 and 9 then subtract 11 from it.			1088203	
5	Find 27cm less than ¾ m.	CM	7	Arya has two strings. One string measures 5m, the other measures	
6	Divide the product of 13 and 4 by 26.			8m. If she makes 5 pieces from the first string and 2 pieces from the	
7	Increase 28 by 6			second string then what would be the difference in the lengths between the two strings?	m
8	What will be change given if Katy pays 52 for buying 4 pens costing		8	There are 60 candies in a Jar.	
	36p each?	ps		Emily ate 12 candies from Monday to Thursday. How many	Sweets
9	Michael buys a rope 1 metres and 65 centimetres in length He uses			are left?	
	two pieces of 40cm from it. What is the length of the rope left?	CM	9	What would be the change from spending 45p and paying in two	
10	Write the next two numbers in the			5ps and three 10ps?	ps
Ť	sequence.		10	Find the sum of one-fifth of 20 and a third of 18.	
	13, 17, 19, 21,				