

TALENT POOL ACADEMY

Name: .....

Year Group: .....


# MATHEMATICAL REASONING


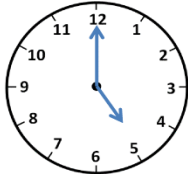

BOOK 1




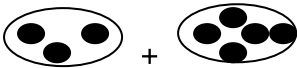
# Section 1 | Test 1

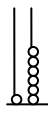
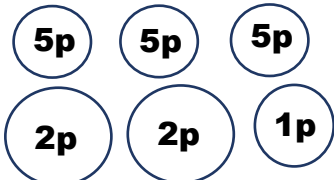


A	Answer
1 How many beads? Write the number as a word ●●●●●●●●●●	_____
2 $17p + 9p + 1p =$	_____ p
3 $9 - 5 =$	_____
4 Which two numbers are missing? 1, 3, □, 7, □	_____ and _____
5 Two 2ps =	_____ p
6 $17 \div 2 =$	_____ r _____
7 $9 + 2 = 2 + \square$	_____
8 5 times 4 =	_____
9 $6 - 6 =$	_____
10. 9 times 3 =	_____

B	Answers
1 Write the missing even number. 2, 4, □, 8	_____
2 Eight minus four?	_____
3 Find the total of 0, 2, 3, 5	_____
4 Take 7 from 7	_____
5 How many days in a week?	_____
6 Find the total of these coins? 	_____ p
7 Write the number as a word that equals seven plus four.	_____
8 What is the sum of 3p and 2p?	_____ p
9 From 7 take 3	_____
10 Subtract 0 from 7	_____

C	Answer
1 Alex spent 4p. He had a 5p left. How much had he at first?	_____ p
2 The length of a line is 7cm. Find the length of the line which is 3cm shorter.	_____ cm
3 Teresa is 6 years older than Amy who is 4. How old is Teresa?	_____
4 How many days in a school week starting Monday and finishing Friday?	_____ days
5 On a necklace, there are ten jewels. Three sapphire, two rubies and rest are diamonds. How many diamonds are there?	_____
6 Sarah has these coins in her purse. She spends 4p. How much has she left? 	_____ p
7 Michael shares 17 sweets with his three friends. How many sweets are left behind?	_____ Sweets
8 Twelve biscuits are taken from a box of twenty. How many are left behind. Write your number as a word.	_____ Biscuits
10 What is the time? 	_____ o'clock
10 How many 2, 5 and 10p coins do you need to make 17p? 	_____ 2ps _____ 5ps _____ 10ps

# Section 1 | Test 2

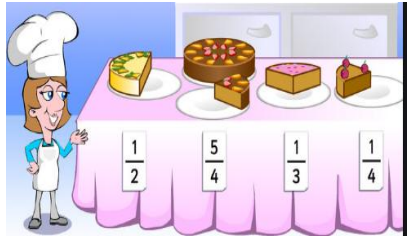

A	Answer
1 $5p + 3p + 0p =$	_____ p
2 $7 - 3 =$	_____
3 $9 + 6 =$	_____
4 $7p - 5p =$	_____ p
5 $9 = 5 + \square$	_____
6 $5 \times 1 =$	_____
7 $6 = 8 - \square$	_____
8 $4 + 4 + 4 + 4 =$	_____
9 $13 \div 2 =$	_____ r _____
10  What time is it?	_____ 'o' clock
B	Answers
1 Find total no of dots. 	_____
2 Take 0 from 9.	_____
3 Write the word for the missing number. $3 \square, 7, 9 \square$	_____ p
4 Five more than six	_____
5 How many must be taken from 6 to leave 3?	_____
6 To six add zero.	_____
7 What number equals double 3?	_____
8 Subtract 9 from 17.	_____
9 Find the difference between 4 and 8.	_____
10 $9 \div 2 =$	_____ r _____

C	Answer							
1  Write the word for the number shown on the abacus.	_____							
2 What number must be added to 10 to make 20?	_____							
3 Find the total of these coins? 	_____ p							
4 Lee has one 5p and one 2p. How much are these coins worth altogether?	_____ p							
5 A line is 5cm long. By how many centimetres is it shorter than another line 8cm long?	_____							
6 Which is the third letter in the row? <table border="1" data-bbox="919 1133 1302 1189"> <tr> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> <td>G</td> <td>H</td> </tr> </table>	B	C	D	E	F	G	H	_____
B	C	D	E	F	G	H		
7  Adam gets to school 2 hours later than the time on this clock.	_____ 'o' clock							
At what time does he arrive?	_____							
8 Alice has two 2ps and four 1ps. How much money has she altogether?	_____							
9 Write the word for the number that comes between 8 and 10.	_____							
10 Write the time in digital form. Use a.m. or p.m.	_____							
 Morning	_____							

# Section 1 | Test 3


A	Answer
1	6 tens + <input type="text"/> units = 68
2	$15 + 8 =$
3	<input type="text"/> - 7 = 11
4	$7p + 4p =$ _____p
5	<input type="text"/> + 6 = 17
6	$4\text{cm} + 7\text{cm} =$ _____ cm
7	What comes next? 6, 12, 18, 24, <input type="text"/>
8	$16 - 4 =$
9	$8\text{cm} - 3\text{cm} =$ _____cm
10	$18 - \text{} = 8$



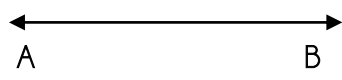

B	Answers
1	How many 5ps are worth 20
2	Double 8
3	Add 17 and 10
4	What is the missing number? 10, 8, <input type="text"/> , 4, 2, 0
5	Decrease 12 by 4
6	Add the first three even numbers.
7	Find the difference between the biggest and the smallest of these amounts of money? <input type="text"/> 2p 4p 16p 17p 9p
8	7 plus 3 minus 2
9	$7 + 8 = 10 + \text{}$
10	$19 \div 2 =$ _____

C	Answer
1	Kevin is 8 years old. How old will he be in 4 years time?
2	Take zero from fifteen.
3	Rolex gave two 5ps, two 2ps and three 1ps to pay for a pen. How much did the pen cost? _____p
4	How many half oranges can be cut from three whole oranges?
5	What number is taken from 15 to leave 5?
6	If Tuesday is the second day of the week, name the sixth day of the week.
7	There are five men, six women and eight children on a bus. How many people are there in total on the bus?
8	Ollie has a half and his friend has a quarter of cake. What fraction of the cake is left? 
9	Write in words the name of the day of the week that follows Friday.
10	Find the total of these notes.  £ _____

# Section 1 | Test 4

A	Answer
1	$8 + 5 \square = 16$
2	$22 - \square = 15$
3	$36 = 3 \text{ ten} + \square \text{ units}$
4	$6 + 3 =$
5	$4p + 6p =$
6	$12\text{cm} + 6\text{cm} =$
7	$18 - 4 =$
8	$12p - 8p =$
9	$18\text{cm} - 6\text{cm} =$
10	$9 + \square = 17$

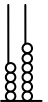
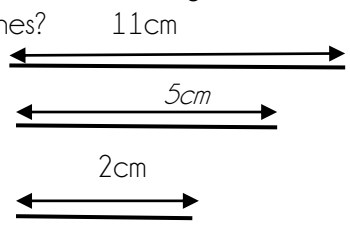


B	Answers
1	How many more smiley faces are needed to make 22 
2	$30p = \text{one } 20p + \square 5ps$
3	Write the correct sign, + or -, in place of $\square$ $14 \square 3 = 11$
4	What number is added to 8 to make 15?
5	Decrease 18 by 6
6	Find the change from one 20p after spending 2p and 3p.
7	What is the sixth letter? <div style="border: 1px solid black; padding: 5px; display: inline-block;">A G W R Q T Y J H</div>
8	Find the sum of 2, 6, 8, 0
9	Seven plus two minus six
10	What is the difference between 5p and 2p

C	Answer
1	What is the value of the missing coin? 
2	By how many is $7 + 9$ more than 11?
3	The date is 3 <sup>rd</sup> May. What is the date two weeks later?
4	Yasmin has 4p less than her brother who has 13p. How much has Yasmin?
5	Write in digits the time shown on the clock.  Night
6	If Tuesday is the second day of the week, name the fifth day?
7	How many 4ps have the same value as a 20p coin?
8	A line is 12cm long. At what measurement is its middle point? 
9	What is the number missing? $3 + 5 + 7 + \square = 20$
10	Write in words the time shown on the clock. 

# Section 1 | Test 5

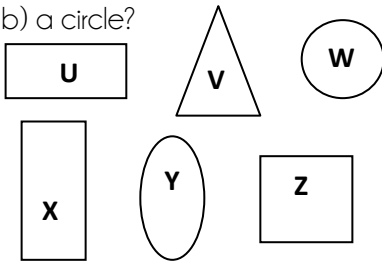

A	Answer
1	$3 + 3 + 5 =$ _____
2	$7 - 0 =$ _____
3	$8 + \square = 10$ _____
4	$4 = 10 - \square$ _____
5	$11 + 9 =$ _____
6	$15 - 8 =$ _____
7	$10p + 5p + 2p + 1p =$ _____ p
8	$20p - 5p =$ _____ p
9	$13 - \square = 9$ _____
10	$£10 + \square = £15$ £ _____

B	Answers						
1	Write the number 16 as word.. _____						
2	What is the missing number? 20, 19, 18, $\square$ , 16, 15 _____						
3	Double 9 _____						
4	How many days are there in fortnight? _____						
5	Subtract 6 from 9. _____						
6	Which is the even number? <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>9</td> <td>11</td> <td>13</td> <td>15</td> <td>16</td> <td>17</td> </tr> </table> _____	9	11	13	15	16	17
9	11	13	15	16	17		
7	Find the change from a £10 note after spending £6. £ _____						
8	What number is added to 10 to make 19? _____						
9	Increase 2 by 10. Write the number as a word _____						
10	Find the product of 2 and 8 _____						

C	Answer
1	 Write the word for the number shown on the abacus. _____
2	Michael spends £5 and £4. How much change from a £10 note? £ _____
3	At a party there were 17 plates of food. 10 are eaten. How many are left? _____
4	Olivia's cat is 12 years old. How old will the cat be in 5 years' time? _____
5	What number is taken from 18 to leave 12? _____
6	Find the total length of the three lines? _____ cm 
7	What is the difference in centimetres between the longest and shortest lines? _____ cm
8	If Monday is the first day of the week, name the fourth day. _____
9	How many children can be given 4 crayons from the box below? _____ 
10	Hassan has two coins in his pocket with a total value of 12p. Name both coins. _____ p 

# Section 1 | Test 6




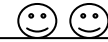


A		Answer
1	$2 + 3 + 0 =$	_____
2	$10 - 3 - 5 =$	_____
3	$7 + \square = 13$	_____
4	$13 + 2 =$	_____
5	$12 + \square = 15$	_____
6	$\square - 7 = 10$	_____
7	What comes next? 4, 8, 12, 16, $\square$	_____
8	One 20p = one 10p + $\square$ p	_____p
9	$0 + \square = 10$	_____
10	$10\text{cm} + 8\text{cm} =$	_____cm
B		Answers
1	How many dots are needed are to make seventeen? ● ● ● ● ● ● ● ●	_____
2	On 20p = one 10p + $\square$ 5ps	_____5ps
3	Write the correct sign, + or -, in the place of $\square$ $12 \square 6 = 18$	_____
4	What number is added to 4 to make 20.	_____
5	Decrease 20 by 5.	_____
6	Which is the eighth letter in the row? <b>A C E G F J M O P</b>	_____
7	Which is the odd number? <b>4 6 12 15 18 20</b>	_____
8	Ten plus eight minus three.	_____
9	Find the sum of 0, 3, 4, and 10	_____
10	Find the change from One 10p after spending 8p	_____p

C		Answer
1	Which of these shapes is a) a square b) a circle? 	a) _____ b) _____
3	If the date is 5th may, what is the date 10 days later?	_____
4	The length of a piece of wood is 17cm. How many centimetres are sawn off to leave 10cm?	_____cm
5	Joseph has 5p. Her sister has twice as much. Find the total of their money.	_____p
6	What is the missing number? $3 + 10 + \square = 19$	_____
7	I spent 13p, 3p, 5p. How much change did I receive from one 30p?	_____p
8	Carol is 18 year old. How old was he 7 year ago?	_____ years old.
9	18 people were on a bus. Seven got off and three got on. How many people were then on the bus? 	_____
10	On checking her answers to part B of this test, Jane had four wrong. How many had he correct?	_____





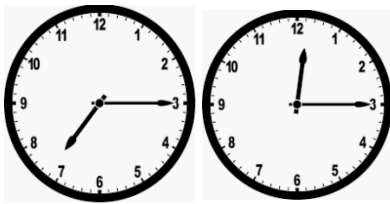
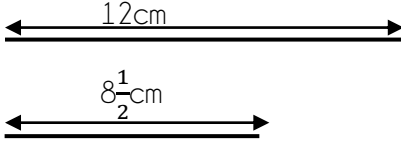
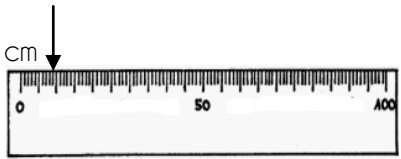
# Section 1 | Test 7

A		Answer
1	$8 - 0 + 6 =$	_____
2	Write the number for the missing number. $0, 10, 20, 30, \square, 50$	_____
3	$50p = \square 10ps$	_____10ps
4	$\frac{1}{4} + \frac{1}{2} + \frac{1}{4} =$	_____
5	$4\frac{1}{2} + \frac{1}{2} =$	_____
6	$60 - 30 =$	_____
7	$2 + 2 + 2 + 2 + 2 + 2 =$	_____
8	$17 \div 3 =$	_____r_____
9	$10cm = 2\frac{1}{2}cm + \square cm$	_____
10	$3 - 2 + 0 =$	_____
B		Answers
1	Find the total of seven 2ps and one 5p.	_____p
2	Subtract ten from thirty.	_____
3	Write $<$ or $>$ to make this statement true. $89 \square 98$	_____
4	How much change from two 10ps after spending 12p?	_____p
5	Find the difference between 7 and 4.	_____
6	Add 10cm and 30cm.	_____cm
7	Eight groups each of two. How many altogether?	_____
8	2 times 3 =	_____
9	How many days are there in March?	_____
10	How many twos are there in 12?	_____

C		Answer
1	20 treats are shared equally between two puppies. How many each?	_____
2	Twice eight minus nine	_____
3	Siren spends 11p. She gives one 5ps and the rest in 2ps. How many 2ps does she give?	_____
4	If 19 September is on Monday, on which day is 30 September.	_____
5	A card costs 9p. Find the cost of two cards.	_____p
6	A box of chocolate contains two layers, each of 12 chocolates. How many chocolates in the box? 	_____
7	The length of two wooden rods are $8\frac{1}{2}$ cm and 10 cm. Find the difference in their lengths.	_____cm
8	How many children chose science as their favourite subject? Maths  Science  History  One child = 	_____
9	How long is the line AB? 	_____cm
10	How many 5ps have the same value as a 20p?	_____5ps

# Section 1 | Test 8

A	Answer
1 Write in words the missing numbers. 5, 15, 20, 25, <input type="text"/> , 35	_____
2 Write these numbers in digits. a. 4 tens 6 units b. 5 tens 3 units	a. _____ b. _____
3 $75 + 10 =$	_____
4 $67 - 20 =$	_____
5 $1\frac{1}{2} - \frac{1}{4} =$	_____
6 $10 \times 0 =$	_____
7 $4\text{cm} + 3\text{cm} = 5\text{cm} +$ <input type="text"/>	_____ cm
8 3 times 7 =	_____
9 $30 = 10 \times$ <input type="text"/>	_____
10 $31 \div 5 =$	_____ r _____
B	Answers
1 What number is fourteen more than seventy.	_____
2 From 40 take 23	_____
3 How many days in February the year 2020 (29 in a leap year)?	_____
4 Find the total value of these coins. 	_____ p
5 How much change from two £20 notes after spending £31?	£ _____
6 Decrease 60p by 7p.	_____
7 What number is 3 times bigger than 4?	_____
8 How many days in September?	_____
9 $\frac{1}{2}$ of 18	_____
10 $\frac{1}{2}$ of 1Kg	_____ g

C	Answer						
1 The length of a line that is 7cm. How long is a line that is 5 times as long as it?	_____ cm						
2 Is this pencil vertical or horizontal? 	_____						
3 Write in digits the number that equals 5 tens and 7 units.	_____						
4 How many hours from 7:15 a.m. to 12:15 p.m.? 	_____						
5 Find the difference between the lengths of the rods. 	_____ cm						
6 Which of these numbers is nearest to 60? <table border="1" data-bbox="914 1344 1316 1411"> <tr> <td>58</td> <td>64</td> <td>56</td> <td>61</td> <td>63</td> <td>66</td> </tr> </table>	58	64	56	61	63	66	_____
58	64	56	61	63	66		
7 What number is the arrow pointing to? 	_____ cm						
8 Oscar gave six 5ps to pay for seven sweets at 4p each. How much change did he receive?	_____ p						
9 <table border="1" data-bbox="914 1892 1077 2027"> <tr> <td><b>Badges</b></td> </tr> <tr> <td>3 for 20p</td> </tr> </table> How many badges can be bought for 60p?	<b>Badges</b>	3 for 20p	_____ badges				
<b>Badges</b>							
3 for 20p							
10 One quarter of Frank's money is 9p. How much has he altogether?	_____ p						