10+ Entrance information and materials

It is assumed that candidates are following the Year 5 Programme for Study of Mathematics, available via the DfE website

(https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_dat a/file/335158/PRIMARY_national_curriculum_-_Mathematics_220714.pdf start page 31)

If any unfamiliar notation is used it will be fully explained in the question. Some of the questions near the end of the paper are intended to be of an original nature so may seem unfamiliar to students but will draw from mathematical thinking skills being developed in Primary Schools.

TRINITY SCHOOL CROYDON

ENTRANCE EXAMINATION PRACTICE QUESTIONS

MATHEMATICS (1 hour)

Instructions to Candidates

- 1. Write your name at the top of this question paper
- Try all of the questions. Do not spend too much time on any one question go on to the next.
 You can go back to a question if you have time at the end.
- 3. Show all necessary working in the space provided. DO NOT RUB OUT ANY WORKING unless you wish to change it.
- 4. Answers should be written on the answer line provided.
- 5. Do not write anything in the margins.
- 6. <u>Calculators are not allowed.</u>

1 Add: 3079 + 2975 + 453	2 Subtract: 3147 – 959
This is	
the	
of marks	
for the	
question	
Answer:	3 Answer
$\frac{5}{3} \qquad \text{Multiply:} \qquad 57 \times 49$	4 What is 2012 divided by 12
3 winnipity. $3/\times 40$	\rightarrow what is 2012 divided by \uparrow :
5 Find and two life of (120	5 Answer:
5 Find one twenth of £120	6 a) while down the number two hundred and five thousand three hundred and six in
	figures
	ligures.
	Answer:
	(b) Write down in words, the value of the 5
	in the number 546027
2 Answer:	2 Answer:

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7	Bharat buys two bottles of water at 85p each and four bars of chocolate at 72p each. How much does he spend altogether? Give your answer in £'s.	8	Jill pours out five 23 cl glasses of water from a full 150 cl bottle. How many cl are left in the bottle?
3	Answer: £	3	Answer:cl
9	My train left Waterloo station at 2.37 in the afternoon. Write this time in the 24 hour clock. Answer: If the journey lasted two hours and forty-	10	Jenny thinks of a number. She adds seventeen and then divides by six. Her answer is five. What is the number that Jenny first thought of?
	my destination?		
3	Answer:	2	Answer:
	A car travels at an average of 30 miles per hour. How long would it take to travel 10 miles? Give your answer in minutes.	12	How many seconds are there in eight minutes?
2	Answer: minutes	2	Answer:seconds

13	For each part, put the values in numerical order, smallest first.	14 Add together 3 kg, 94g and 1kg 9g. Give your answer in grams.						
	(a) 0.902 0.092 0.92							
	(b) $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{3}$							
	(c) 0.89m 90 mm 90cm							
6		3 Answer:g						
15	Look at the pattern below which continues for	or ever (but I did not have time to write out all the						
	1 3 5 7 9 11 13 15 17							
	Choose one word from this list which best de	escribes this pattern of numbers						
	Square Factors Odd Even Prime	Answer						
	Which number comes next? Answer							
	The fifth number in the list is 9. What do you think the 45 th number in the list will be? Answer							
	What is the sum of the first six numbers in th	e list?						
	Answer							
	Another pattern is described as being the num first number in this pattern is also 1. Write do	nbers that are two less than a multiple of 3. The own the next four numbers in this pattern.						
	Answer							
6								
16	Here are parts of two different number lines.	Write in the number indicated by the arrow.						
	(a) (b)							
	$4 4\frac{1}{4}$	970 990						
		T						
4								
	/19 Pa	age 3 10+						

17	7 There are 35 children in Anita's class										
1/	One fifth c	of the chi	ldren have	blue eve	es and t	he rest	have	hrown e	Wes		
	Thora are	12 hove c	f which 4	hove bl			nave	UIUWII C	ycs.		
	Lice the in:	formation	$\frac{1}{2}$	nave on	hlo			Γ	Number	Numb	er
	Use the m	lormation	i to comple	ete the ta	ble.				of hove	of girl	c l
							Г	2122	01 00 ys	01 gill	5
								Slue	4		
	eyes						eyes				
	Brown						rown				
							e	eyes			
3											
18	Abordoon		1	Ĭ	1			1	Ĭ	1	
10	513	Bristol			_						
	473	171	Cambridge								
	595	206	124	Dover							
	587	83	250	244	Exete	r 🗌					
	482	54	153	224	128	Her	eford				
	279	236	252	355	310	204		Kendal			
	328	219	147	272	294	188		72	Leeds		
	388	185	94	219	259	153		111	142	Lincoln	
	Distance in 1	kilometres									
	T1	.1	. 1:	1		D.::4:.1	4	T4 .1		1:	1
	I his table	snows th	e distance	between	some	British	towns	s. It show	vs that the	distance	between
	Bristol and	l Kendal	1s 236 kilo	metres.							
	a) How fai	is it fror	n Leeds to	Exeter?						• • • •	
	,										
	b) What ar	e the fur	thest two to	wns on	the ch	art?					
	o) what a	e une run		0 W IIS 011		AIL:	•••••	• • • • • • • • • • • •		• • • • • • • • • • • • •	
	\ T 1' '	D 1	. 1.	••,		C 1	1	1.0	.1		1 1,
	c) I live in	Dover b	ut need to v	visit my	son in	Cambr	dge a	and from	there go o	on to my o	laughter
	in Leeds before returning directly home. What total distance will I travel?										
6									Answer		km
10	A		at an 26 and			20 1					KIII
19	A square n	as perim	eter 36 cm.			20 1	n a re	ctangle t	ne length	15 1 / cm.	Ine
	Write the s	side lengt	ths on the s	ketch be	low	p	perimeter of the rectangle is 48 cm. Find				
	and calculation	ate its are	ea.			tl	ne wie	dth of th	e rectangle	Э.	
<u> </u>				2							
2	Λ	CULON		cm^2		2		Anorra			
2	An	swer:		cm ²		3		Answe	er:	•••••	

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Please turn over the page Page 4

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25	Zahra has twenty coloured beads in a bag. She has 10 red beads, 5 green beads and 5 yellow bead. Zahra takes out a bead at random from the bag.							
	Using the probability scale below, mark these points on the scale.							
	Mark with an R the probability that Zahra takes out a red bead. Mark with a G the probability that the bead is green. Mark with a W the probability that the bead is white. Mark with an N the probability that the bead is not yellow.							
	Impossible	Even Chance	2	Certainty				
	0	0.5		1				
4 26	The four angles inside a c	quadrilateral always ac	ld up to 360°.					
	Use this fact to find the m	nissing angles in the fo	ollowing quadrila	terals:				
	a) If one angle is 120° and other angles are equal to o other, find the size of the three other angles.	d the b) Three of the each 88° and 137°. I the other angle	e angles are 53°, Find the size of	c) The two largest angles are equal and the two smallest angles are equal. The larger angles are five times the size of the smaller angles. Find the size of the larger angles.				
6	Answer	Answer An						
27	Peter is making some ora parts water to one part of	nge squash. The direc	tions on the bottl	e say that he should use three				
	a) He has 90 cl of water,	how much squash	b) Next day he	followed the instructions again				
	can he make if he follows	s the instructions?	and made 280 cl of squash. How much wate did he use this time?					
3	Answer	cl	Answer	cl				

THIS IS THE END OF THE EXAM. PLEASE GO BACK AND CHECK YOUR ANSWERS.

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