Name:			Date:			35
Year	5 Maths Rea	soning Test Set: Paper A				total marks
1. α	) Measure the foll	owing line, giving the answer in cm.				
				-		1 mark
					cm	
h	) Measure the foll	owing line giving the gnswer in mm				
5	, measure the join	owing the giving the unswer in fint.				1 mark
_						
					mm	
••••			• • •		• •	
2. S	ome children cou resent the data w	nt the number of vehicles that pass a sing a pictogram.	school	in one hour. T	hey	
P	= 4 vehi	cles				
	Motorbike					
	Car					
	Lorry					
	Van					
	Bus					
••••			• • •	• • • • • • •	••	
						total for this page







total for this page

#### 5. Complete these sequences a)



7. Layla records the temperature in the playground every hour during the school day.



total for this page



#### a) What is the highest temperature recorded?

### b) The temperature is 8°C twice in the day. Estimate how many minutes between these two times.

8. A scientist collects three samples of soil. They weigh 45 kg, 32 kg and 114 kg. The samples are combined and then divided into 100 packs of equal weight for testing the growth of a plant.

What weight will each pack weigh? Give your answer in kilograms.



9. Two of these calculations give the same answer. Circle the calculation that gives a different answer to the other two.





4

1 mark

2 marks

2 marks

1 mark

total for this page

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10.	At the end of the programmes we	e credits of 2 tel re produced. He	levision prog ere are the ye	rammes a ears.	re the years	s the	2 marks
	MCMXCIV	MMXVI					
	How many year	s are there betv	veen the proc	luction of	each progr	amme?	
				-			
							_
••					• • • • •		••
11	26 243 spectato	rs attended a fo	othall match	λ A local r	newsnaner i	renorted that	
	the attendance	was twenty-six	thousand. To	o what wo	is the atten	dance round	ed?
	Circle the correc	ct answer.					
	10	100	)	1000		10 000	
••							
12	Order the follow	ing fractions fi	rom smallest	to largest	·.		
12.	order the johow	ring ji dettonis ji	ont situtest	to turgest			1 mark
	$\frac{7}{8}$	3 4	<u>1</u> 2		<u>5</u> 8	$\frac{9}{16}$	
	smallest					larc	iest
••			•••••		• • • • •	• • • • • •	
13.	Circle the numb	ers that are fac	tors of <b>both</b> :	32 and 48			1 mark
	2 3	4 5	6 7	8	10 12	15 1	6
••	• • • • • • •		• • • • •	• • • • •	• • • • •	• • • • • •	• •





### 14. A school buys 16 digital cameras. Each camera costs £146. What is the total cost of the 16 cameras?

				Image: Second	Image: Second	Image: Second	Image: Second	Image: Second	Image: Second

#### 15. Each number in a square is the total of the two adjoining numbers in circles. Calculate the three missing numbers:







total for this page

6

2 marks

2 marks

# 16. Here is a shape on a grid.a) Reflect the shape about the solid horizontal line.

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b) Translate the new shape 8 places to the right.

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total for this page

1 mark

1 mark

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17. Anna and Shen each have a bottle of water.Anna has a 500ml bottle and drinks half of the bottle.Shen has a 330ml bottle and drinks three quarters of the bottle.Explain why Anna drinks more than Shen.



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2 marks

## 20. A geologist measures the mass of 2 rocks. One weighs 19.072 kg, and the other weighs 3.726 kg. Calculate the difference in mass between the 2 rocks.


2 marks

\*\*END OF TEST\*\* total for this page



question	answer	marks	notes
1.			
9	12.6cm	1	Please be aware that line size will vary
b	141 mm	1	depending on printer settings.
2.			
a	9	1	
b	32	1	
3.			
	12	2	2 marks for a correct answer. 1 mark for 10 or 11, with evidence of recording 10 or 11 combinations with no repetition.
4.			
	horizontal and parallel	1	Both must be circled.
5.			
9	70, 77	1	
b	400, 475	1	
6.			
	8417 - 4753	2	2 marks for all correct. 1 mark if 3 digits correct.
7.			
9	11ºC	1	
b	210 minutes	2	2 marks for 210 minutes. 1 mark for correctly identifying 11:00 and 14:30 as the times the temperature is 8ºC.
8.			
	1.91 kg	2	2 marks for a correct answer. 1 mark for correct method, but one mistake in calculations.
9.			
	2/3 of 48	1	

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question	answer	marks	notes
10.		°	
	22 years	2	2 marks for the correct answer. 1 mark for evidence of correctly converting one of the years. (1994 and 2016).
11.			
	1000	1	
12.			
	$ \begin{array}{ c c c c c c } \hline \hline 1 \\ \hline 2 \\ \hline 7 \\ \hline 16 \\ \hline 8 \\ \hline 8 \\ \hline 8 \\ \hline 3 \\ \hline 4 \\ \hline 7 \\ \hline 8 \\ \hline 8 \\ \hline 8 \\ \hline 7 \\ \hline 8 \\ \hline 8 \\ \hline 8 \\ \hline 7 \\ \hline 8 \\ \hline 8 \\ \hline 7 \\ \hline 8 \\ \hline 8 \\ \hline 7 \\ \hline 8 \\ \hline 8 \\ \hline 7 \\ \hline 8 \\ \hline$	1	
13.	·		
	2, 4, 8, 16	1	
14.			
	£2336	2	2 marks for a correct answer. 1 mark for a correct calculation, but with 1 mistake in calculating.
15.			
	<b>0.69</b> 0.55 2.09 <b>0.78</b> 1.24 <b>2.64</b> 2.87	2	2 marks for all three correct. 1 mark for 2 correct.
16.			
a		1	1 mark for each correct answer.









