

## **Year 7 Mathematics 2016**

## **Common Test 1: Whole Number**

Total marks: 65		Name			_	Tutor Class	
Show your working	g for any ques	tion worth	more than	one mark.			
1. Put the follo	owing number	rs in <b>descer</b>	ding order.	Note: No working	g is required		
	77717,	8987,	637114,	123000,	97312		
Answer							[2]
2. Using only t	the digits shov	vn below, c	reate the fol	lowing number	s:		
		9	4 5	1 7			
(a) A two digit co	omposite num	nber		_			[1]
(b) A one digit p	rime number			_			[1]
(c) A factor of 24	4						[1]
(d) A two-digit p	orime number						[1]
(e) A square nur	mber						[1]
(f) The smallest	5-digit numbe	er		_			[1]
3. Answer the	questions bel	low about t	he number				
			5960	)3			
(a) Round to the	e nearest thou	sand		_			[1]
(b) Write the nu	ımber in word	s					
							[1]
(c) What is the p	place value of	the 9?		_			[1]
(d) What is the v	value of the 6	?		_			[1]
(e) Write the nu	mber in expar	nded form _					=
							[1]

4. Write in compact form (as a simple numeral)		
(a) $3 \times 100\ 000 + 2 \times 1000 + 7 \times 10 + 6 \times 1$		[1]
(b) $3 \times 100 + 6 \times 1000 + 2 \times 10000 + 7 \times 10$		[1]
5. Write in expanded form		
(a) 80 207		[1]
(b) 9046		[1]
6. Round the following amounts of money		
(a) \$623.50 to the nearest dollar		[1]
(b) \$13.89 to the nearest ten cents		[1]
7. Use leading figure approximation to <b>estimate</b> the ar	swers to the following, <b>show y</b>	our working.
(a) $173 \div 2 + 1298$		
	Δηςwer	[2]
(b) 76 + 2846 + 1976	Answer	[2]
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8. (a) Write down the first <b>five</b> multiples of 5 <b>and</b> 8:	Answer	[2]
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a) 217 + 38		b) Find the difference between 9000 and 2346			
Answer: c) 32 × 5	[2]	Answer: d) 1026 ÷ 3	[2]		
Answer:e) Find the product of 14 and 76	[2]	Answer: f) Find the sum of 685 and 45 and	[2] 186		
Answer:	[3]	Answer:	[2]		
10. (a) List the factor pairs for 2	24	Answer		[1]	
(b) List the factors in ascen	ding order of		-	<i>ι</i> – 1	
		Answer	-	[2]	

9. Perform the following calculations by hand showing full working

Answer			[2]	
Answer  12. Write down all the numbers which end in a 3, are prime and are less than 50				
Answer			[2]	
13. Circle the correct answer, True or False.				
(a) Adding a zero always results in zero	Т	F	[1]	
(b) Even numbers are divisible by two	Т	F	[1]	
(c) Composite numbers have exactly two factors	Т	F	[1]	
(d) Adding two even numbers always results in an even number	Т	F	[1]	
(e) The product of four and five is twenty	Т	F	[1]	
(f) 1786 is divisible by 5	Т	F	[1]	
14. Is 3245 divisible by 3? Explain your answer.				
			[2]	
15. Evaluate the following: <b>Show your working</b> .				
(a) 3 + 5 x 8			_ [1]	
(b) 5 x 6 + 9 ÷ 3			_ [1]	
(c) 2 x 10 ÷ 5			[1]	

11. Write 120 as a product of its prime factors, show your working.

(a) Which is equal to	o $8  imes (2+7)$ . Please circle th	ne correct answer.	
<b>A</b> $8 \times 2 + 7$	$\mathbf{B} \ 8 \times 2 + 8 \times 7$	$\mathbf{C}  2 + 8 \times 7$	[1]
(b) True or false?			
	$6 \times (4 + 3) =$	$6 \times 4 + 6 \times 3$	
			[1]
(c) Fill in the missing	g number.		[1]
	$5 \times 9 + 5 \times 8 =$	= 5 × ( + 8)	
(d) Fill in the missing	g number.		[1]
	$4 \times 3 + 4 \times 2 =$	= 4 × ()	
17. Arrange the digits 1,	2, 3, 4 and 5 in the squares to	get a product of 4928.	
	×		
			[2]
	numbers. Multiply my two num per and you get 4. What are my	bers and you get 36. Divide the latwo numbers?	arger number
			[2]
19. What is the mystery	number? (There is more than o	one solution, you need only give	one)
It's greater than 2.			
It's less than 10.			
When you divide 83,	, 179 and 275 by the mystery n	umber, you get the same remain	der.

16. Use your knowledge of the distributive property to answer the following: