

# **Year 7 Mathematics 2014**

# **Whole Number Test**

1 Dut the fallenting much and in a co						_	
1. Put the following numbers in asc	_					mark to-	
200	)1,	1999,	2	101,	20	011,	,
					سمة		
		Answe	er (1) _	199	7,	2001, 2011, 2101	[2]
2. Using only the digits shown below	, creat	te the fol	lowin	g nun	nbers:	<u></u>	
	7	8	6	1	5		
(a) A two digit composite number	r				any	correct answer	[1]
(b) A one digit prime number						5 01 7	[1]
(c) A factor of 16						10-80-16	[1]
(d) A two-digit prime number						170-610-67 0-71	[1]
(e) A square number						1 0-16 0-81	[1]
(f) The largest 5-digit number						87651	[1]
3. Answer the questions below abou	t the r	ıumber	d de				
		8 7	93	4			
(a) Round to the nearest thousan	d					88000	[1]
(b) Write the number in words	E,	ight		<u>و</u> ر	2-	thousand, n.	· Ine
(a) Round to the nearest thousan (b) Write the number in words  hundred a		7	Lh.	 f	>	four	[1]
(c) What is the place value of the						thousands , 1000s	
(d) What is the value of the 9?						900	[1]
(a) \\/\site the annual and in annual a	4 fa	<b>~</b>	ال ال	بر دسر	فتم وستصر وسد	0 + 7 x 1000	
(e) write the number in expanded	חווטוג		~ (		- 40-	/ / / /	

- 4. Write in compact form (as a simple numeral)
  - (a)  $5 \times 10\ 000 + 3 \times 1000 + 8 \times 10 + 2$
  - (b)  $5 \times 100\ 000 + 6 \times 1000 + 3 \times 100$

- 53082
- 506300
- [1]

[1]

- 5. Write in expanded form
  - (a) 79 100
  - (b) 473

- 7x10000+9x1000+1x100[1]
- $\frac{4 \times 100 + 7 \times 10 + 3}{1}$
- 6. Round the following amounts of money
  - (a) \$7823.40 to the nearest dollar
  - (b) \$7.85 to the nearest ten cents

- <u> \$7823</u> [1]
- \$ 7.90 [1]
- 7. Use one figure approximation (1 s.f.) to estimate the answers to the following, show your working.
  - (a)  $876 \div 3$

900 : 3 /

Answer (7a) 300 [2]

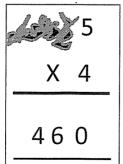
(b) 27 + 520 + 1976

30 + 500 + 2000

Answer (7b) 2 5 3 0 [2]

8. Bill's dog Bob has chewed his homework. Copy the problems out again and fill in the missing numbers?
[4]

# Multiplication



× 4

460

#### Addition

\$57 +2**3**\$

688

Answer

457

1231

688

(14)

0	(a) Write down the first five moultiples of Canal O.

9.	(a)	Write	down	the	first	five	multir	iles	of f	and	g.
	(~,		~~					,,,,	<b>O</b> . (		$\sim$ .

Multiples of 6	6,12,(18),24,30	[2]

Multiplies of 9 
$$\frac{9}{18}$$
,  $\frac{27}{36}$ ,  $\frac{36}{45}$  [2]

## (b) What is the lowest common multiple of 6 and 9?

## 10. Perform the following calculations by hand – Show full working

Answer: 
$$5403$$
 [2]

Answer: 
$$7409$$
 [2]  
d)  $492 \div 3$   $\frac{164}{3)4'9'2}$ 

$$\frac{62}{\frac{\times 43}{186}}$$
 $\frac{2480}{2666}$ 

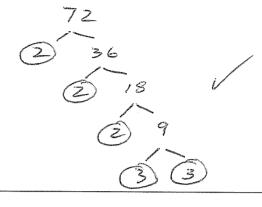
11. (a) List the factor pairs for 15

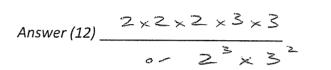
[1]

(b) List the factors of 30

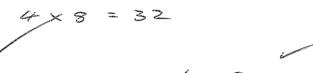
Answer (11b) 
$$f(3e) = 1, 2, 3, 5, 6, 10, 15, 30$$
 [1]

12. Write 72 as a product of its prime factors, show your working.





13. Write down two whole numbers whose sum is 12, and whose product is 32



Answer (13) 4,8 [2]

- 14. Circle the correct answer, True or False.
  - (a) Multiplying by zero always results in zero



F

[1]

[2]

(b) Odd numbers are not divisible by two



F

[1]

(c) 817 is divisible by 3

T

[1]

(d) All composite numbers can be written as a product of their prime factors



F

[1]

(e) The sum of four and five is twenty

- Т
- F

[1]

(f) The quotient of six and three is two



F

[1]

0 -	UA	prime	nume	ie has	· <>	cactly	- 2	facto	
				facto-		~ ·			
	سرس ت المن	62/					Ar	nswer (15)	i

- (a) 4+5x8 <u>4-4</u> [1]
- (b) 6 x 4 + 2 ÷ 1 \_\_\_\_\_\_ 26 [1]
- (c) 2 x 10 + 5 \_\_\_\_\_\_ [1]
- (d) 9-8+2 \_\_\_\_\_\_ [1]
- 17. Suzie has \$500 in her bank. She withdraws \$370. How much is in her bank account now?

Answer (17) \$ /30 [2]

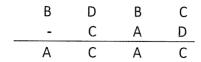
18. Jamie walks 3 kilometers every day. How far does Jamie walk in 5 weeks.

Answer (18) 105 km [2]

19. (a) A movie theatre charges \$9 for a child's ticket and \$12 for an adult's ticket. There are 25 children and 15 adults in the movie theatre. How much money was paid for all the tickets?

(b) If there were 30 children's tickets sold and the total money for all the tickets was \$587, how many adult tickets were sold?

20. In the problem below each letter represents one of the digits from 0 to 9. No two letters can stand for the same digit. Find the value of each letter.



21. Use the digits 1, 2, 3, 4, 5, 6, 7, 8 and 9 once each to fill in the blanks of this puzzle:

$$9 - 3 = 6$$



[3]

Working Space: