

Year 7 Mathematics 2011

Whole Number Test

Show your working for any quantum in the limits. Using only the digits in the					share:	
. Osing only the digits in the	1					
	1	5	7	4	2	
(a) A two digit composite n	number				Any 2-digit composite	
(b) A two digit prime numb	per				17, 71, 41,47	
(c) A factor of 16					4, 2, 1	
(d) A multiple of 3					15 12 27	
(e) A square number					4 25	
(f) The largest 3-digit numb	ber				754	
2. Answer the questions below	w about th	ne numbe	r 4892			
		ne numbe			4900	
(a) Round to the nearest h	undred		4892		4900	
(a) Round to the nearest he (b) Write the number out i	undred		4892	· , eig	4900 ht hundred and ninety	
(a) Round to the nearest h	undred in words		4892	eig		
(a) Round to the nearest ho (b) Write the number out i	undred in words of the 9?		4892	. eig	ht hundred and ninety	
(b) Write the number out i two (c) What is the place value (d) What is the value of the	undred in words of the 9? e 8?	Four	4892 Thousand		ht hundred and ninety tens / 10's	
(a) Round to the nearest here (b) Write the number out in two (c) What is the place value (d) What is the value of the	undred in words of the 9? e 8?	Four	4892 Thousand		tens / 10's 800 / eight hundred	

- 4. Write in compact form
 - (a) $5 \times 1000 + 2 \times 100 + 3 \times 10$

5 2 3 0 [1]

(b) $9 \times 10,000 + 4 \times 100 + 1 \times 1$

9040/ [1]

- 5. Write in expanded form
 - (a) 5039

5 x 1000 + 3 x 10 + 9 [1]

(b) 950

- $9 \times 100 + 5 \times 10$ [1]
- 6. Round the following amounts of money
 - (a) \$353.30 to the nearest dollar

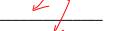
*§*353 [1]

(b) \$2.55 to the nearest ten cents

\$2.60 [1]

7. (a) Write down the first **five** multiples of 6 **and** 4:

Multiples of 6 6 12 18 29, 30



- Multiples of 4 4 8 /2 /6 20 [2]
- (b) What is the lowest common multiple of 6 and 4?

- 8. Stewart's homework was to multiply and divide numbers by 10, 100 or 1000. Unfortunately Stewart spilt coke on his homework; fill in the circles to help him finish his homework.
 - (a)

$$589 \bigcirc 1000 = 589000$$

[1]

[2]

(b)

$$4500 \div \bigcirc = 45$$

[1]

(c)

$$56 \quad \bigcirc \quad \boxed{} = 5600$$

- 9. Using one figure approximation to estimate the answers to the following, show you working.
 - (a) 47 + 3 + 147





(b) 59×304





- 10. Perform the following calculations by hand Show full working
 - a) 2910 + 5181

b) 1982 –734

- Answer: 8091 / [2]
- Answer: /248 / [2]

- c) 34 × 4
 - 34 × 4 136

d) 14 × 12

- Answer: ________ [2]
- Answer: _______ [2]

- e) 6540 ÷ 3
 - 3)6540 V

f) 238 ÷ 5

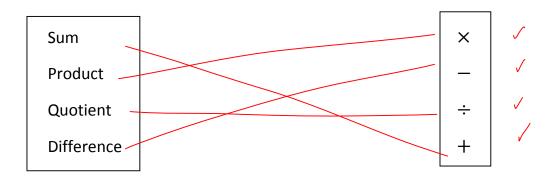
$$\frac{047 r^3}{5)23^38}$$

Answer: 2/80

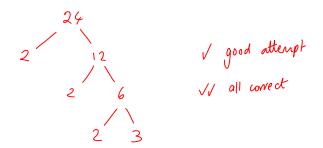
[2]

Answer: 47 r 3 [2]

11. Join the words on the left with the correct symbol on the right.



12. Draw a prime factor tree for 24

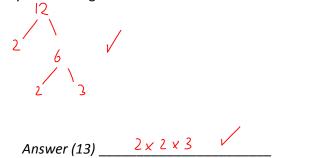


[2]

[2]

[2]

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

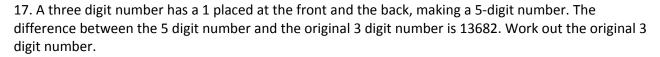


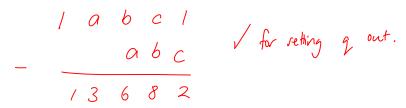
14. Write down two whole numbers whose product is 100, but do not contain the digit 0.

Answer (14) $\frac{25}{4}$ [2]

(a) When a 4	4 digit number is added to another 4 digit number, then the resul	ts is
Α	always a 4 digit number	
В	always an 8 digit number	
C	either a 4 digit number or a 5 digit number	
D	either a 4, 5 or 6 digit number	[1]
(b) When the	e difference between two 4 digit numbers is calculated then the i	result is ,
Α	either a 1, 2, or 3 digit number	
В	sometimes a 5 digit number	
С	always a 4 digit number	
0	a number with less than 5 digits	[1]
take them to th	r fans are planning to support their team at the finals. They workene big game will cost them \$27 each.	d out that hiring a bus to
(a) What is th	the total cost of the bus?	
	\$27 x 40	
	Answer (1	5a) /080 [2]
	ay of the finals only 30 fans turn up at the bus. The total cost for l much does each of the 30 fans have to pay now?	hiring the bus is still the
	1080 ÷30	
	Answer (1	5b) \sqrt{36} [2]
(c) The fans b	buy flags to show support for their team. A dozen flags cost \$72,	
	72 ÷ 12 = 6	
	$72 \div 12 = 6$ 6×30	/
	Answer (1.	5c)[3]

15. Choose the correct answer by circling A, B, C or D for each question.





Answer (17)
$$\frac{\checkmark \checkmark \checkmark}{409}$$
 [4]

- 18. I am thinking of a number . . .
- (a) It is an even number and it is also a prime number

(b) It is a square number, it has 2 digits and the sum of the digits is even.

Answer (18b)
$$64$$
 [1]

19. Fill in the gaps in the following problems

[3]

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. A student has already worked out that the letter S stands for the number 2. What sum does this problem represent?