Year 7 Unit 2 Test

$\bar{x} = 89\%$

Name_____

Tutor Class_____

Total 80

1. In the number 437617 what is the: (4 marks)

   a) place value of the 6 — 100's hundreds ✓

   b) value of the 3 — 30000 ✓

   c) place value of the 1 — 10's tens ✓

   d) value of the 7 — 7 ✓

2. Write in expanded form: (2 marks)

   a) 8362 — 8x1000 + 3x100 + 6x10 + (2x1) ✓ — +2 okay

   b) 458 — 4x100 + 5x10 + (8x1) ✓ — +8 okay.

3. Write in compact form (2 marks)

   a) 8 x 10 + 3 — 83 ✓

   b) 7 x 10000 + 4 x 1000 + 6 x 10 + 8 — 74068 ✓

4. Round the following numbers: (4 marks)

   a) 763 to the nearest 10 — 760 ✓

   b) 848 to the nearest 100 — 800 ✓

   c) $3.23 to the nearest 10 cents — $3.20 ✓

   d) $87.67 to the nearest dollar — $88 ✓

5. Using 1 figure approximations calculate the value (do not give the exact answer and show all of your working): (4 marks)

   a) 82 x 59

   80 ✓ x 60 ✓ = 4800

   b) 730 + 92 + 3875

   700 + 90 + 4000 ✓

   = 4790 ✓

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6. Calculate: (4 marks)

a) 762x 10

7620 ✓

b) 420 x 1000

420000 ✓

c) 8500 ÷ 100

85 ✓

d) 27000 ÷ 1000

27 ✓

7. Show full working for the following questions by writing them in working form and then calculating the answer. (8 marks)

a) 364 + 42 + 593=

364
42 ✓
593
999 ✓

b) 7400 – 2519 =

6 13 9 10
7400
2519 ✓
4881 ✓

c) 3725 ÷ 5

745 ✓
5) 3725 ✓

d) 52 x 26 =

52
x26
312 ✓
1040
1352 ✓

8. Showing all of your working: (8 marks)

a) Find the product of 73 and 24

73 ✓
X24
292
1460
1752 ✓

b) Find the sum of 524 and 297

524
+297 ✓
821

c) Find the difference between 232 and 86

1 12
232 ✓
86
146 ✓

d) Calculate 3126 ÷ 6

521 ✓
6) 3126 ✓

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9. Find: (5 marks)

a) the first 5 multiples of 7

7, 14, 21, 28, 35

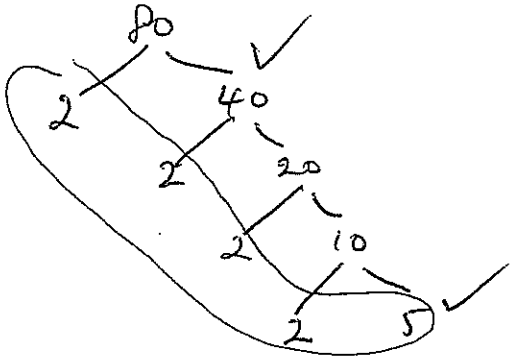
b) the first 5 composite numbers.

4, 6, 8, 9, 10

c) the first 5 prime numbers

2, 3, 5, 7, 11

10. Find the prime factors of 80- (show your working) (2 marks)



11. Give the factor pairs for 24: (4 marks)

24 : 1, 24 2, 12 3, 8 4, 6

12. Find the lowest common multiple of 8 and 12 (show working) (2 marks)

8 : 8, 16, 24
12 : 12, 24, 36,

✓ for having multiples of 8 & 12
✓ for showing LCM

13. Find the HCF of 24 and 16. (2marks)

24 : 1, 24, 2, 12, 3, 8, 4, 6
16 : 1, 16, 2, 8, 4

✓✓ for HCF factors of 24
✓ for showing HCF

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14. Calculate (2 marks)

a) $3 + 5 \times 8 \div 7 =$

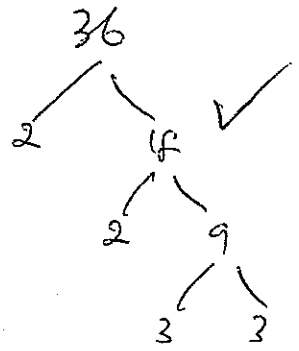
$3 + 40 \div 7$

$43 \div 7 = 36$ ✓

b) $6 \times 7 - 3 \times 4 =$

$42 - 12 = 30$ ✓

15. Use a factor tree to show 36 as a product of prime factors. (2 marks)



✓

$36 = 2 \times 2 \times 3 \times 3$ ✓

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16. Frank has 408 marbles and decides to give one quarter of them away to 6 of his friends. How many marbles does each one get if each of his friends gets the same number? (3 marks)

$$4\overline{)408} = 102 \checkmark$$

$$6\overline{)102} = 17 \checkmark$$

17. Fred and Prajay each get unicycles for Christmas. They also get flashing lights so they can ride safely at night. Fed's light flashes every 4 seconds and Prajay's flashes every 9 seconds. When the lights are turned on at the same time they flash together once, how long will it be before they flash together again? (3 marks)

4: 4, 8, 12, 16, 20, 24, 28, 32, (36) ✓

9: 9, 18, 27, (36), 45 ✓

After 36 secs ✓

18. A group of friends, Jo, Schmo, Flo, Zo, Wo and Cho, go to BK after school. 4 of them buy burgers for $5.50 each, 4 order fries for $2.50 each, 2 buy drinks for $2 each and 6 buy ice creams for $1

a) How much did they spend altogether? (~~4~~ 5 marks)

$4 \times 5.50 = \$22$ ✓
$4 \times 2.50 = \$10$ ✓
$2 \times 2 = \$4$ ✓
$6 \times 1 = \$6$ ✓

$\$42$ ✓

b) If they divided the total cost evenly between them all how much would each have to pay? (2 marks)

$$6\overline{)42} = 7 \checkmark \checkmark$$

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