Year 7 Unit 2 Test

64

Name_____

Tutor Class_____

1. In the number 431789 what is the: (4 marks)

   a) place value of the 3 ___10000's ✓___

   b) value of the 8 ___80 ✓___

   c) place value of the 1 ___1000's ✓___

   d) value of the 7 ___700 ✓___

2. Write in expanded form: (2 marks)

   a) 3057 ___3 x 1000 + 5 x 10 + 7 ✓___

   b) 552 ___5 x 100 + 5 x 10 + 2 ✓___

3. Write in compact form (2 marks)

   a) 4 x 10 + 9 ___49 ✓___

   b) 9 x 10000 + 3 x 1000 + 5 x 10 + 3 ___93053 ✓___

4. Round the following numbers: (4 marks)

   a) 946 to the nearest 100 ___900 ✓___

   b) 43 to the nearest 10 ___40 ✓___

   c) \$3.23 to the nearest 5 cents ___\$3.25 ✓___

   d) \$87.67 to the nearest \$ ___\$88 ✓___

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

   a) 48 x 96

   $$50 ✓$$
   $$\times 100$$
   $$\overline{5\,000} ✓$$

   b) 324 + 72 + 4977

   $$300$$
   $$+ \ 70 ✓$$
   $$+5\,000$$
   $$\overline{5370} ✓$$

16

6. Calculate: (4 marks)

a) 398 x 10

$39\wp0$ ✓

b) 42 x 10000

420000 ✓

c) 850 ÷ 100

$8\cdot5$ ✓

d) 2705 ÷ 1000

$2\cdot705$ ✓

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

a) Find the product of 31 and 16

$$\begin{array}{r} 31 \\ \times\ 16 \\ \hline 186 \\ 310 \\ \hline 496 \end{array}$$ ✓

b) Find the sum of 117 and 196

$$\begin{array}{r} 117 \\ +\ 196 \\ \hline 313 \end{array}$$ ✓
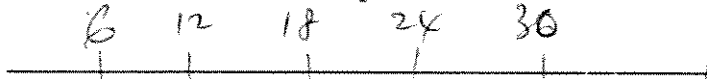
c) Find the difference between 115 and 86

$$\begin{array}{r} 115 \\ -\ 86 \\ \hline 29 \end{array}$$ ✓

d) Calculate 7614 ÷ 9

$$9\overline{)7614} = 846$$ ✓

8. On the number lines plot using an appropriate scale: (9 marks)

a) The first 5 multiples of 6

6   12   18   24   30

b) The first 5 even numbers

2   4   6   8   10
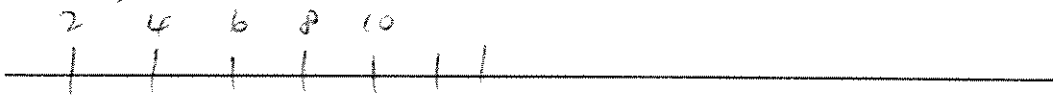
c) The first 5 composite numbers.

4   6   8   9   10

5/5 3 marks
and 4/5 2 marks
3/5 1 mark.

21.
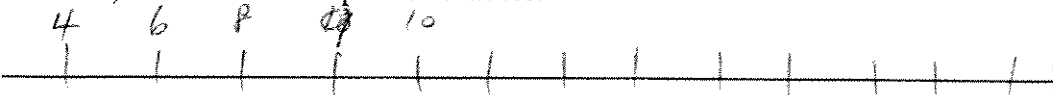
Year 7 Unit 2 Test

9. Write 1998 in Roman Numerals (2 marks)

MCMXCVIII ✓✓
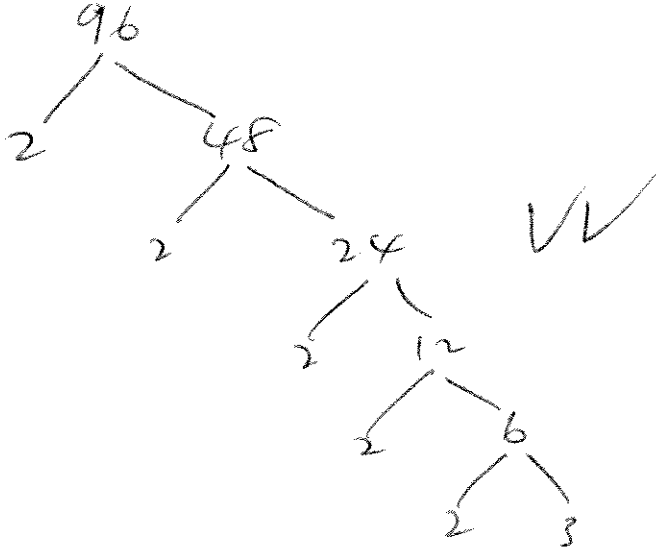
10. Write CCLXXIV in ordinary number form. (2 marks)

274

3 digits correct ✓✓
2 digits correct ✓

11. Find the prime factors of 96- (show your working) (2 marks)

96

2 — 48

2 — 24

2 — 12

2 — 6

2 — 3

✓✓

12. I bought nine shirts which cost a total of $405 and nine ties which cost $23 for <u>each one</u>. (5 marks)
    a) How much would each shirt and a matching tie cost?

Shirts $405 ÷ 9 = $45 ✓✓

tie $23 ✓✓

total $68 ✓

    b) How much would it cost if I bought 4 shirts and 4 ties?

$$4 \times \$45 + 4 \times \$23 \checkmark$$

$$= 180 + \$92 \checkmark$$

$$= \$272 \checkmark$$

13. John collected old 1 and 2 cent pieces. Had 1116 one cent pieces and 666 two cent pieces. He decided to give them to his 9 friends so that each person got the same number of 1 and 2 cent pieces.
How much did each person get? Give your answer in dollars and cents.   (4 marks)

$666 \times 2 = 1332$ cents ✓

total cents $= 1332 + 1116$

$= 2448$ cents ✓

$= 224\ 24.48$

$24.48 \div 9 = \$2.72$ ✓

$\$1.24$ (1 cent) and $\$1.48$ (2 cent) full marks

14. Jan bought 3 tins of cat food for 95 cents each, 5 cat chews at 55 cents each and 7 cat collars for $1.25 each.

How much change would she have left from a $20 note?   (5)

3 tins $= \$2.85$ ✓

5 chews $= \$2.75$ ✓

7 collars $= \$8.75$ ✓

14.35 ✓

$20 - 14.35 \$5.65$ change

15. Using long division show full working   (4)
16.:

```
      642 r 2
   6 ) 3 8 5 4
       3 6
       2 5
       2 4
         1 4
         1 2
           2 .
```

17. Using Long Multiplication show full working   (3)

```
      3 4
   X 2 7
     2 3 8 ✓
     6 8 0 ✓
     9 1 8 ✓
```

124
148
272.

(16)