SHARP

Mathematical Literacy – Grade 10

Worksheet 1 MEMO – Numbers Practice

1. Write the following numbers in words:
   a) 1 200 300 - One million, two hundred thousand, three hundred
   b) 1 000 000 000 000 – One trillion
   c) 2 345 678 910 – Two billion, three hundred and forty five million, six hundred and seventy eight thousand, nine hundred and ten
   d) 23 000 – twenty three thousand

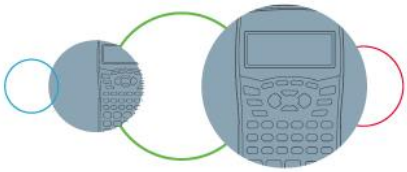
Teacher note: After some research, 1 billion has 9 zeros, while a trillion has 12 zeros

2. Write the numbers for the given words:
   a) one trillion and twelve – 1 000 000 000 012
   b) two billion, three thousand and seventeen – 2 000 003 017
   c) forty-eight million, five hundred and sixty-eight thousand and one – 48 568 001
   d) nine hundred and eighty two million – 982 000 000

3. Separate these numbers using commas, or spaces so that they are easier to read:
   a) 232434324 – 232,434,324
   b) 577554897098 – 577,554,897,098
   c) 2676429346 - 2,676,429,346
   d) 34865964598659 – 34,865,964,598,659

4. What do the following numbers mean?
   a) -R300 in your bank account – You owe the bank R300
   b) R500 in your bank account – The bank owes you R 500 or you have R500
   c) -15°C in Switzerland – The temperature is 15 degrees Celsius below zero
   d) 22°C in Cape Town – The temperature is 22 degrees Celsius above zero

5. If an over in cricket is 6 balls, how many balls are there in:
   a) 4 overs? 4 x 6 = 24 balls
   b) 6 overs? 6 x 6 = 36 balls
   c) 10 overs? 10 x 6 = 60 balls
   d) 50 overs? 50 x 6 = 300 balls



6. If there are 8 mints in a roll of sweets, how many mints are there in:

a) 3 rolls of sweets? 3 x 8 = 24 mints

b) 5 rolls of sweets? 5 x 8 = 40 mints

c) 15 rolls of sweets? 15 x 8 = 120 mints

d) 50 rolls of sweets? 50 x 8 = 400 mints

7. Calculate the following:

a) $5 \times (72 \div (8+4)) - 3$

$= 5 \times (72 \div 12) - 3$

$= 5 \times 6 - 3$

$= 30 - 3$

$= 27$

b) $(59+1) \div (2 \times 5) - 6$

$= 60 \div 10 - 6$

$= 6 - 6$

$= 0$

c) $32 \div 8 + 3 \times 7 - 14$

$= 4 + 3 \times 7 - 14$

$= 4 + 21 - 14$

$= 11$

d) $72 - (8 \times 7 + 3) + 4 \times 12$

$= 72 - (56 + 3) + 4 \times 12$

$= 72 - 59 + 4 \times 12$

$= 72 - 59 + 48$

$= 61$

e) $3 \times 3 \times (10 - 5 \times 2) + 21 \div 3$

$= 3 \times 3 \times (10 - 10) + 21 \div 3$

$= 3 \times 3 \times 0 + 21 \div 3$

$= 0 + 7$

$= 7$

f) $27 \div (3 \times 2 + 3) - 5$

$= 27 \div (6 + 3) - 5$

$= 27 \div 9 - 5$

$= 3 - 5$

$= -2$

g) $42 \div (7 \times 6) + 100$

$= 42 \div 42 + 100$

$= 1 + 100$

$= 101$

h) $\frac{1}{4}\ of\ (15 \div 5 + 13)$

$= \frac{1}{4}\ of\ (3 + 13)$

$= \frac{1}{4}\ of\ 16$

$= \frac{1}{4} \times 16$

$= 4$

i) $9 + 10 - 7 \times 12 \div 6$

$= 9 + 10 - 7 \times 2$

$= 9 + 10 - 14$

$= 19 - 14$

$= 5$

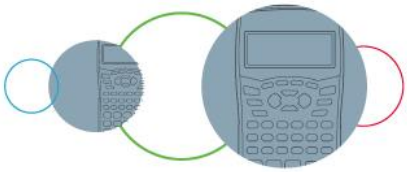
j) $(68 - 4) \div 8 \times 10 + 3$

$= 64 \div 8 \times 10 + 3$

$= 8 \times 10 + 3$

$= 80 + 3$

$= 83$



8. Add the following numbers together:

a) $0.411 + 1.938 + 0.306$

$$\begin{array}{r} 0.411 \\ +\ 1.938 \\ +\ 0.306 \\ \hline =\ 2.655 \end{array}$$

b) $1.995 + 2.742 + 0.228$

$$\begin{array}{r} 1.995 \\ +\ 2.742 \\ +\ 0.228 \\ \hline =\ 4.965 \end{array}$$

c) $0.612 + 0.294 + 0.219$

$$\begin{array}{r} 0.612 \\ +\ 0.294 \\ +\ 0.219 \\ \hline =\ 1.197 \end{array}$$

d) $2.181 + 2.763 + 0.261$

$$\begin{array}{r} 2.181 \\ +\ 2.763 \\ +\ 0.261 \\ \hline =\ 5.205 \end{array}$$

9. Redraw the following table in your workbook and fill in the blanks:

Decimal	x 10	x 100	x 1000
2.562	25.62	256.2	2562
1.311	13.11	131.1	1311
0.897	8.97	89.7	897
0.96	9.6	96	960
0.69	6.9	69	690
1.2345	12.345	123.45	1234.5
2.244	22.44	224.4	2244
0.018	0.18	1.8	18
1.08	10.8	108	1080
1.197	11.97	119.7	1 197

10. Give the answers for the following:

a) $4^2 = 16$ b) $12^2 = 144$ c) $\sqrt{16} = 4$

d) $\sqrt{81} = 9$ e) $2^3 = 8$ f) $5^3 = 125$

g) $\sqrt{64} = 8$ h) $\sqrt{1} = 1$ i) $7^2 = 49$

j) $10^3 = 1000$ k) $\sqrt{36} = 6$ l) $11^2 = 121$