

Answer the following:

1) Write the basic numerals for each of these.

a.  $(7 \times 10\,000) + (4 \times 1\,000) + (6 \times 100) + (0 \times 10) + (2 \times 1)$

b.  $(3 \times 10^5) + (8 \times 10^4) + (0 \times 10^3) + (0 \times 10^2) + (9 \times 10^1) + (7 \times 1)$

2) Write each of these in the expanded form, using index notation.

a. 5 219

c. 129 042

b. 38 514

d. 3 507 068

3) Using leading figure estimation to estimate the answer to each calculation.

a.  $587 + 839$

c.  $54 \times 375$

b.  $22\,289 - 5\,099$

d.  $815 \div 37$

4) Rewrite each of these statements using numerals and mathematical operations.

a. 3 lots of 6

b. 7 more than 30

c. 9 into 36

d. The difference between 19 and 6

5) Use inequality signs to show the meaning of:

a. 15 is less than or equal to 28

b. 11 is greater than or equal to 11

c. 5 is not less than 3

6) Copy and complete each expression, then evaluate.

a.  $5 \times 7 + 5 \times 3 = 5 \times (\_ + \_)$

b.  $12 \times 5 - 12 \times 3 = 12 \times (\_ + \_)$

**Answer Key:**

- 1) a. 74 602  
b. 380 097
- 2) a.  $(5 \times 10^3) + (2 \times 10^2) + (1 \times 10) + (9 \times 1)$   
b.  $(3 \times 10^4) + (8 \times 10^3) + (5 \times 10^2) + (1 \times 10) + (4 \times 1)$   
c.  $(1 \times 10^5) + (2 \times 10^4) + (9 \times 10^3) + (0 \times 10^2) + (4 \times 10) + (2 \times 1)$   
d.  $(3 \times 10^6) + (5 \times 10^5) + (0 \times 10^4) + (7 \times 10^3) + (0 \times 10^2) + (6 \times 10) + (8 \times 1)$
- 3) a. 1 426  
b. 17 190  
c. 20 250  
d. 22.027
- 4) a.  $3 \times 6$   
b.  $30 + 7$   
c.  $36 \div 9$   
d.  $19 - 6$
- 5) a.  $15 \leq 28$   
b.  $11 \geq 11$   
c.  $5 \nless 3$
- 6) a. 7 and 3  
b. 5 and -3