Question 1: Write the place value of the digit that has been underlined

1) 725 units

2) 7,823 units

3) 199 units

4) 11,717,555 tens of thousands

5) 9,053,496 Hundreds

6) 709,758,968 Tens of thousands

7) 105,016 Thousands

8) 43,105 Tens

6 State whether each of these statements is true or false.

a $5 > 4$ True b $6 = 10$ False c $9 \neq 99$ True d $1 < 12$ True

e $22 \leq 11$ False f $126 \leq 126$ True g $19 \geq 20$ false h $138 > 137$ True

i $13 = 1 + 3$ False j $15 + 7 = 22 + 5$ False k $16 - 8 = 8 - 16$ False l $10 = 1 + 2 + 3 + 4$ True

9 Arrange these numbers from smallest to largest.

a 55, 45, 54, 44

$44 < 45 < 54 < 55$

b 729, 29, 92, 927, 279

$29 < 92 < 279 < 729 < 927$

c 23, 951, 136, 4

$4 < 23 < 136 < 951$

d 435, 453, 534, 345, 543, 354

$345 < 354 < 435 < 453 < 534 < 543$

e 12345, 54321, 34512, 31254

$12345 < 31254 < 34512 < 54321$

f 1010, 1001, 10001, 1100, 10100

$1001 < 1010 < 1100 < 10001 < 10100$

14 It is convenient to write very large numbers in expanded form with index notation. Here is an example.

$50000000 = 5 \times 10000000 = 5 \times 10^7$

a Explain why it is convenient to write large numbers in this type of expanded form.

Because we don't have to write that many zeros.

b 3200 can also be written in the form 32×10^2. All the non-zero digits are written down and then multiplied by a power of 10. Similarly, write each of these numbers in the same way.

i 4100 ii 370000 iii 21770000

$4100 = 41 \times 100$

so $4100 = 41 \times 10^2$

$370,000 = 37 \times 10^4$

$21,770,000 = 2177 \times 10^4$

Question 1: Write in expanded form

a 8562 = 8,000 + 500 + 60 + 2

b 9357 = 9000 + 300 + 50 + 7

c 3248 = 3,000 + 200 + 40 + 8

d 15 389 = 10 000 + 5000 + 300 + 80 + 9

e 12 437 = 10,000 + 2000 + 400 + 30 + 7

f 73 481 = 70 000 + 3000 + 400 + 80 + 1

g 45230 = 40,000 + 5,000 + 200 + 30

QUESTION 3 Write the basic numeral for the following.

a 8000 + 700 + 60 + 5 = 8765

b 10 000 + 2000 + 300 + 50 + 7 = 12357

c 70 000 + 8000 + 400 + 90 + 6 = 78496

d 90 000 + 4000 + 900 + 60 + 2 = 94962

e 500 000 + 600 + 30 + 5 = 500635

QUESTION 1 Write the basic numeral for the following.

a 9000 + 800 + 50 + 6 = 9856

b 20 000 + 7000 + 900 + 70 + 2 = 27972

c 80 000 + 9000 + 700 + 90 + 5 = 89795

d 90 000 + 6000 + 800 + 30 + 8 = 96838

e 300 000 + 80 000 + 7000 + 900 + 80 + 7 = 387987

QUESTION 2 Write each as a simple numeral.

a 8 thousand + 6 hundred + 7 tens + 8 units = 8678

b 3 ten-thousand + 9 thousand + 5 hundred + 3 tens = 39530

c 6 hundred-thousand + 7 hundred + 5 tens + 2 units = 600752

d 1 million + 1 hundred-thousand + 1 hundred + 1 unit = 1,100,101

e 6 million + 5 hundred-thousand + 3 thousand + 8 tens = 6,503,080