QUESTION **1** For the following number sequences, write the next three numbers.

a 4, 7, 10, 13, _____, _____, _____

b 1, 5, 9, 13, _____, _____, _____

c 2, 9, 16, 23, _____, _____, _____

d 27, 22, 17, 12, _____, _____, _____

e 63, 55, 47, 39, _____, _____, _____

f 36, 33, 30, 27, _____, _____, _____

g 3, 9, 27, 81, _____, _____, _____

h 1, 10, 100, 1000, _____, _____, _____

i 2, 4, 8, 16, _____, _____, _____

j 5, 10, 20, 40, _____, _____, _____

k 31, 29, 27, 25, _____, _____, _____

QUESTION **2** Complete the following number sequences.

a 15, 28, 41, 54, _____, _____, _____

b 1600, 800, 400, 200, _____, _____, _____

c 10, 30, 90, 270, _____, _____, _____

d 1, 4, 16, 64, _____, _____, _____

e 50, 43, 36, 29, _____, _____, _____

f 1, 4, 9, 16, _____, _____, _____

g 1, 8, 27, 64, _____, _____, _____

h 3, 4, 6, 9, _____, _____, _____

i 4, 3, 7, 6, 10, _____, _____, _____

j 384, 192, 96, 48, _____, _____, _____

Part of a number pattern is shown. Fill in the next 3 missing numbers.

1, 5, 9, 13, ___, ___, ___

10, 8, 6, 4, ___, ___, ___

10, - 8, 6, - 4, ___, ___, ___

-1, -0.5, 0, 0.5, ___, ___, ___

-3.2, -1.8, -0.4, 1, ___, ___, ___

2, 4, 7, 11, ___, ___, ___

100, 50, 25, 12.5, ___, ___, ___

QUESTION **3** The first number and the rule are given; use these to write the next four numbers.

a 160; divide by 2: _____, _____, _____, _____

b 7; multiply by 3: _____, _____, _____, _____

c 2; multiply by 4 and subtract 3: _____, _____, _____, _____

d 625; divide by 5: _____, _____, _____, _____

e 10 000; divide by 10: _____, _____, _____, _____

f 5; multiply by 4 and subtract 10: _____, _____, _____, _____

QUESTION 1 For the following number patterns write the next three numbers in the pattern. Write the rule that forms the pattern.

a 2, 5, 8, 11, _____, _____, _____

Rule: _____

b 3, 6, 12, 24, _____, _____, _____

Rule: _____

c 48, 43, 38, 33, _____, _____, _____

Rule: _____

d 5, 50, 500, 5000, _____, _____, _____

Rule: _____

e 6400, 3200, 1600, 800, _____, _____, _____

Rule: _____

QUESTION 5 Write 4 consecutive odd numbers beginning with:

a 23; _____, _____, _____, _____

b 101; _____, _____, _____, _____

c 999; _____, _____, _____, _____

QUESTION 6 Write 3 consecutive odd numbers whose sum is 21 and the product is 315

_____, _____, _____.