

## **Answers 17/06/20**

a) 18, 24, 30, 36, 42, 48

b) 35, 42, 49, 56, 63, 70

c) 54, 45, 36, 27, 18, 9

d) 12000, 11000, 10000, 9000, 8000

e) 0, 25, 50, 75, 100, 125

f) What do you notice about the sequence when you count in 25s? Each number ends in either a 0 or a 5. Other number facts such as being in 5 times table etc.

g) Spot and correct the mistake in this sequence:

875, 850, 825, 800, 775, 750, 725

Let's investigate – 'Count me in'

Which of these numbers would you come to when counting in sixes from zero? 48, 102, 108, 174, 216, 222, 318, 324 How do you know? Multiples of 6 (in 6 times table), known number facts etc.

Would you get to some of these numbers if you were counting in sevens from zero? Which ones? 56, 98, 182, 224, 322 Can you explain how you arrived at your answers? Multiples of 7 (in 7 times table), known number facts etc.

Could some of these numbers be reached if you were counting in nines from zero? Which ones? 45, 108, 171, 324 Again, how do you know? Multiples of 9 (in 9 times table), known number facts etc.

Challenge:

Looking at the numbers above and this time counting in 25s from zero, which numbers will you land on? 175, 200, 350, 400, 650, 900, 975

If you were counting in 25s from 10, which numbers would you land on this time? 310, 710

How can you work this out without actually counting? All of the numbers end in either 10, 35, 60 or 85.