Factors, GCM, Multiples, Common Multiples, LCM

Instructions:

Show all your work. Answer in complete sentences when possible.

1) What are the factors of 12?

2) What are the factors of 60?

3) Is 348 divisible by 2? How do you know?

4) Is 786 divisible by 3? How do you know?

5) Is 936 divisible by 9? How do you know?

6) Is 3 645 211 divisible by 10? How do you know?

7) Find the greatest common factor of 6 and 20.

8) Find the greatest common factor of 33 and 74.

9) Find the greatest common factor of 24 and 96.

10) Margaret has 8 red-coloured pens and 20 yellow-coloured pens. She wants to create groups of pens such that there are the same number of red-coloured pens and yellow-coloured pens in each group and there are no pens left over. What is the greatest number of groups that she can create? (HINT: look back in your notes to the slide about chairs at a theatre meeting)

11) List the first five multiples of 3

12) List the first five multiples of 12

13) Find the LCM of 5 and 7

14) Find the LCM of 10 and 11

15) Find the LCM of 4 and 6

16) Find the LCM of 12 and 15

17) Kurtis goes to the gym every 3 days. Devon goes to the gym every 4 days. If they joined the gym on the same day, when is the first day that they will be at the gym together?

18) Bella and Janet have the same number of coins. Bella sorts her coins in groups of 6, with no coins left over. Janet sorts her coins in groups of 8 with no coins left over. What is the least possible amount of coins that each of them has?

19) Rob makes flower bouquets. Each bouquet must have 3 white flowers and 7 red flowers. If Rob uses all of his white flowers and all of his red flowers, what is the least possible number of bouquets that Rob could make?