1. Create a four-digit number with the following rules
   - It should end with an even number
   - The last two digits should by divisible by four
   - The sum of all the digits should be equal to nine

   _____ _____ _____ _____

   a. List 7 factors of the number

   _____

   b. Write the number as a product of its prime factors.

   _____

   c. Is it a perfect square, cube or neither?

   _____

2. Given the relationship;
   $$4^2 = 2^c$$

   What number is c?

   _____

3. Calculate the value of the expression correct to two decimal places
   $$\frac{3^2 - 4.5}{4}$$

   _____

4. Common multiples of a set of numbers are the _____ of the L.C.M. Write below four common multiples of 4 and 5;

   _____

5. Find a sequence of four consecutive numbers none of which is prime

   _____ _____ _____ _____

6. A farmer intends planting 63 tomato plants in identical rows. If each row must contain same number of tomato plants, what are the different number of rows Lee can plant.

   _____

7. A radio station is having a promotion in which every $12th$ caller receives a free concert ticket and every $15th$ caller receives a limo ride. Which caller will be the first one to win both?

   _____

8. A square floor mat has length of $4.3 units$. How much area does the mat cover?
   $$Area = length^2$$

   _____

9. Another square mat has area of $576 cm^2$.
   a. Work out the side length of the mat.

   _____

   b. Work out the perimeter of the mat.

   _____