1. 8 masons can build a 10 meters long wall in 22 days. How many masons would be required to build a 165 meters
long wall in 6 days?

2. Solve the following, then convert into Decimal System, multiply and thus check your answer.

   (i) $243_5 \times 2_5$
   (ii) $342_5 \times 43_5$

3. Solve the following with the help of logarithms:
   (i) $\mathbf{4.578 \times 62.16}$
   (ii) $\mathbf{3.97 \times 1.45 \times 7.89}$

4. For what value of q is the expression
       $5x^3 - 14x + q$ exactly divisible by $x - 2$.

5. A man left behind him an inheritance (Tarka) worth Rs 30,000. Distribute the tarka among his four sons and three daughters such that each son gets twice as much as a daughter. The deceased dies leaving behind him a debt of Rs

8000

6. Find the solution set of the equations:

       x+y= 4, 2x –y = 5