**Q1.** Express 56 as the product of its prime factors.

**Q2** Write down two factors of 12

**Q3.** Here is a list of eight numbers

$$4 \quad 5 \quad 4 \quad 25 \quad 29 \quad 30 \quad 33 \quad 39 \quad 40$$

From the list, write down

   (i) a factor of 20
   (ii) a multiple of 10
   (iii) the prime number that is greater than 15

**Q4.** Here is a list of numbers.

$$5 \quad 15 \quad 30 \quad 50 \quad 60 \quad 90 \quad 100 \quad 125$$

From the numbers in the list, write down

(i) two different numbers that add up to an even number

(ii) a multiple of 20
(iii) a factor of 45
(iv) a cube number

**Q5.** Find the Highest Common Factor (HCF) of 24 and 60

**Q6.** (a) Find the lowest common multiple (LCM) of 40 and 56

$$A = 2^3 \times 3 \times 5 \qquad B = 2^2 \times 3 \times 5^2$$

(b) Write down the highest common factor (HCF) of $A$ and $B$.

**Q7.** Tom and Amy set the alarms on their phones to sound at 6.45 am.

Both alarms sound together at 6.45 am.
Tom's alarm then sounds every 9 minutes.
Amy's alarm then sounds every 12 minutes.

At what time will both alarms next sound together?

**Q8.** Write 36 as a product of its prime factors.

**Q9.** (a) Express 180 as a product of its prime factors.

Martin thinks of two numbers.

He says,

   "The Highest Common Factor (HCF) of my two numbers is 6
   The Lowest Common Multiple (LCM) of my two numbers is a multiple of 15"

(b) Write down **two** possible numbers which Martin could be thinking.