



NCERT SOLUTIONS FOR CLASS 6 MATHS PLAYING WITH
NUMBERS EXERCISE 3.7

Q1. Renu purchases two bags of fertilizer of weights 75 kg and 69 kg. Find the maximum value of weight which can measure the weight of the fertilizer exact number of times.

Ans: For finding maximum weight, we have to find H.C.F. of 75 and 69.

Factors of 75 = $3 \times 5 \times 5$

Factors of 69 = 3×23

H.C.F. = 3

Therefore the required weight is 3 kg.

Q2. Three boys step off together from the same spot. Their steps measure 63 cm, 70 cm and 77 cm respectively. What is the maximum distance each should cover so that all can cover the distance in complete steps?

Ans: For finding minimum distance, we have to find L.C.M of 63, 70, 77.

L.C.M. of 63, 70 and 77 = $7 \times 9 \times 10 \times 11 = 6930$ cm.

Therefore, the minimum distance is 6930 cm.

Q3. The length, breadth and height of a room are 825 cm, 675 cm and 450 cm respectively. Find the longest tape which can measure the three dimensions of the room exactly.

Ans: The measurement of longest tape = H.C.F. of 825 cm, 675 cm and 450 cm.

Factors of 825 = $3 \times 5 \times 5 \times 11$

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