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## शक्तिउत्थानआश्रमलखीसरायबिहार

Class :-06(Maths)

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**4. Find the equivalent fraction of  $3 / 5$  having**

**(a) denominator 20**

**(b) numerator 9**

**(c) denominator 30**

**(d) numerator 27**

**Solutions:**

**(a)** We require denominator 20

Let M be the numerator of the fractions

$$\therefore M / 20 = 3 / 5$$

$$5 \times M = 20 \times 3$$

$$M = (20 \times 3) / 5$$

$$= 12$$

Therefore the required fraction is  $12 / 20$

**(b)** We require numerator 9

Let N be the denominator of the fractions

$$\therefore 9 / N = 3 / 5$$

$$3 \times N = 9 \times 5$$

$$N = (9 \times 5) / 3$$

$$= 15$$

Therefore the required fraction is  $9 / 15$

**(c)** We require denominator 30

Let D be the numerator of the fraction

$$\therefore D / 30 = 3 / 5$$

$$5 \times D = 3 \times 30$$

$$D = (3 \times 30) / 5$$

$$= 18$$

Therefore the required fraction is  $18 / 30$

(d) We require numerator 27

Let N be the denominator of the fraction

$$\therefore 27 / N = 3 / 5$$

$$3 \times N = 5 \times 27$$

$$N = (5 \times 27) / 3$$

$$= 45$$

Therefore the required fraction is  $27 / 45$

**5. Find the equivalent fraction of  $36 / 48$  with**

**(a) numerator 9**

**(b) denominator 4**

**Solutions:**

(a) Given numerator = 9

$$\therefore 9 / D = 36 / 48$$

$$D \times 36 = 9 \times 48$$

$$D = (9 \times 48) / 36$$

$$D = 12$$

Hence, the equivalent fraction is  $9 / 12$

(b) Given, denominator = 4

$$\therefore N / 4 = 36 / 48$$

$$N \times 48 = 4 \times 36$$

$$N = (4 \times 36) / 48$$

$$= 3$$

Hence, the equivalent fraction is  $3 / 4$