



Fractions Ex 6.7 Q5

Answer :

(i) $\frac{2}{12}$

HCF of 2 & 12 is 2.

Divide both the numerator & denominator by the HCF of 2 & 12.

$$\Rightarrow \frac{2 \div 2}{12 \div 2} = \frac{1}{6}$$

(ii) $\frac{3}{15}$

HCF of 3 & 15 is 3.

Divide both the numerator & denominator by the HCF of 3 & 15.

$$\Rightarrow \frac{3 \div 3}{15 \div 3} = \frac{1}{5}$$

(iii) $\frac{8}{50}$

HCF of 8 & 50 is 2.

Divide both the numerator & denominator by the HCF of 8 & 50.

$$\Rightarrow \frac{8 \div 2}{50 \div 2} = \frac{4}{25}$$

(iv) $\frac{16}{100}$

HCF of 16 & 100 is 4.

Divide both the numerator & denominator by the HCF of 16 & 100.

$$\Rightarrow \frac{16 \div 4}{100 \div 4} = \frac{4}{25}$$

(v) $\frac{10}{60}$

HCF of 10 & 60 is 10.

Divide both the numerator & denominator by the HCF of 10 & 60.

$$\Rightarrow \frac{10 \div 10}{60 \div 10} = \frac{1}{6}$$

(vi) $\frac{15}{75}$

HCF of 15 & 75 is 15.

Divide both the numerator & denominator by the HCF of 15 & 75.

$$\Rightarrow \frac{15 \div 15}{75 \div 15} = \frac{1}{5}$$

(vii) $\frac{12}{60}$

HCF of 12 & 60 is 12.

Divide both the numerator & denominator by the HCF of 12 & 60.

$$\Rightarrow \frac{12 \div 12}{60 \div 12} = \frac{1}{5}$$

(viii) $\frac{16}{96}$

HCF of 16 & 96 is 16.

Divide both the numerator & denominator by the HCF of 16 & 96.

$$\Rightarrow \frac{16 \div 16}{96 \div 16} = \frac{1}{6}$$

$$(ix) \frac{12}{75}$$

HCF of 12 & 75 is 3.

Divide both the numerator & denominator by the HCF of 12 & 75.

$$\Rightarrow \frac{12 \div 3}{75 \div 3} = \frac{4}{25}$$

$$(x) \frac{12}{72}$$

HCF of 12 & 72 is 12.

Divide both the numerator & denominator by the HCF of 12 & 72.

$$\Rightarrow \frac{12 \div 12}{72 \div 12} = \frac{1}{6}$$

$$(xi) \frac{3}{18}$$

HCF of 3 & 18 is 3.

Divide both the numerator & denominator by the HCF of 3 & 18.

$$\Rightarrow \frac{3 \div 3}{18 \div 3} = \frac{1}{6}$$

$$(xii) \frac{4}{25}$$

HCF of 4 & 25 is 1.

Divide both the numerator & denominator by the HCF of 4 & 25.

$$\Rightarrow \frac{4 \div 1}{25 \div 1} = \frac{4}{25}$$

Three groups of equal fractions : $\frac{2}{12}, \frac{10}{60}, \frac{16}{96}, \frac{12}{72}, \frac{3}{18}, \frac{3}{15}, \frac{15}{75}, \frac{12}{60}, \frac{8}{50}, \frac{16}{100}, \frac{12}{75}, \frac{4}{25}$

Fractions Ex 6.7 Q6

Answer :

Total pages in the book = 100

Fraction of the book read by Isha =

$$\frac{25 \div 25}{100 \div 25} = \frac{1}{4} \quad \left(\text{Dividing numerator \& denominator by the HCF of 25 \& 100} \right)$$

Fraction of the book read by Nagma = $\frac{1}{2}$

Now, compare $\frac{1}{4}$ & $\frac{1}{2}$.

LCM of 4 & 2 is 4.

Convert each fraction into equivalent fraction with 4 as its denominator.

$$\frac{1 \times 1}{4 \times 1} \text{ \& } \frac{1 \times 2}{2 \times 2}$$

$$\frac{1}{4} \text{ \& } \frac{2}{4}$$

$$\frac{1}{4} < \frac{2}{4}$$

Therefore, Isha read less.

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