

MATHEMATICS Std VII

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ASSIGNMENT: Fractions and Decimals

Exercise 2.1

Q5. Fill in the missing numbers in the following equivalent Fractions;

(i) $\frac{3}{7} = \frac{\dots}{35}$

Solution:

$$\frac{3}{7} = \frac{a}{35}$$

$$a \times 7 = 3 \times 35$$

$$a = \frac{3 \times 35}{7}$$

$$= 15$$

Q6. Reduce the following fractions to their simplest form:

(iii) $\frac{72}{336}$

Solution:

$$\text{HCF of } 72, 336 = 24$$

$$\frac{72}{24} = 3$$

$$\frac{336}{24} = 14$$

$$\text{so, } \frac{72}{336} = \frac{3}{14}$$

Q7. Convert into equivalent like fractions:

(i) $\frac{3}{4}, \frac{5}{6}, \frac{7}{8}$

Solution:

$$\text{LCM of } 4, 6, 8 = 24$$

$$\frac{3}{4} = \frac{3 \times 6}{4 \times 6}$$

$$= \frac{18}{24}$$

$$\frac{5}{6} = \frac{5 \times 4}{6 \times 4}$$

$$= \frac{20}{24}$$

$$\frac{7}{8} = \frac{7 \times 3}{8 \times 3}$$

$$= \frac{21}{24}$$

so, $\frac{18}{24}, \frac{20}{24}, \frac{21}{24}$ are equivalent like fractions

Homework: Exercise: Question no. 6(i), (ii), 7(ii), 8 and 9