

Subject: MATHS

05.07 2020

Class 5

Lesson: 7 Fractions

Finding Equivalent Fractions

Dear students,

In previous class you got knowledge about Fractions and it's kind. Today you will know Equivalent Fractions. Equivalent means equal.

Finding Equivalent Fraction

Ex- Find three equivalent fractions of

(a) $\frac{2}{3}$ (b) $\frac{12}{24}$

Hint:- To find a fraction equivalent to the given fraction by multiplying or dividing the numerator or denominator of the given fraction by the same number.

equivalent fraction of

$$(a) \frac{2}{3} = \frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$$

$$\frac{2}{3} \times \frac{3}{3} = \frac{6}{9}$$

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$(b) \frac{12}{24} = \frac{12}{24} \div \frac{2}{2} = \frac{6}{12}$$

$$\frac{12}{24} = \frac{12}{24} \div \frac{3}{3} = \frac{4}{8}$$

$$\frac{12}{24} = \frac{12}{24} \div \frac{4}{4} = \frac{3}{6}$$

So,

Two fractions are equivalent fractions

$$\left(\frac{a}{b} = \frac{c}{d} \Rightarrow a \times d = b \times c \right)$$

Numerator of the 1st fraction \times

Denominator of the 2nd fraction

= Denominator of the 1st fraction \times

Numerator of the 2nd fraction

Ex- Check whether $\frac{2}{5}$ and $\frac{6}{15}$ are equivalent fractions or not.

Solution: $\Rightarrow \frac{2}{5}$ and $\frac{6}{15}$

$$\begin{aligned} 2 \times 15 &= 6 \times 5 \\ = 30 &= 30 \end{aligned}$$

So $\frac{2}{5}$ and $\frac{6}{15}$ are equivalent fractions.

Teacher's Signature: _____

Home Assignment :-

1. Write five equivalent fractions of each of the following fractions

(a) $\frac{2}{5}$ (b) $\frac{5}{8}$ (c) $\frac{16}{24}$ (d) $\frac{11}{12}$

(e) $\frac{24}{30}$ (f) $\frac{4}{15}$ (g) $\frac{6}{7}$ (h) $\frac{9}{11}$

2. Fill in the boxes

(a) $\frac{1}{2} = \frac{\square}{10}$

(e) $\frac{7}{8} = \frac{\square}{16}$

(b) $\frac{\square}{3} = \frac{3}{9}$

(f) $\frac{6}{7} = \frac{\square}{49}$

(c) $\frac{5}{6} = \frac{20}{\square}$

(g) $\frac{6}{9} = \frac{\square}{27}$

(d) $\frac{12}{\square} = \frac{6}{8}$

(h) $\frac{10}{40} = \frac{\square}{160}$

Subject Tr. Rohit Kumar