

DAISY CENTRE AND SCHOOL

STANDARD 5 MATHEMATICS

FRACTIONS

Addition of fractions using LCM

EXAMPLE 1

$$\frac{1}{6} + \frac{3}{4} =$$

Find the LCM of the denominators 6 and 4

LCM of 6 and 4 is 12

Rename the two fractions using LCM as;

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

$$\frac{3}{4} = \frac{9}{12}$$

$$\text{Therefore } \frac{2}{12} + \frac{9}{12} = \frac{2+9}{12}$$

$$= \frac{11}{12}$$

EXAMPLE 2

$$\frac{3}{10} + \frac{3}{5}$$

Find the LCM of the denominators 10 and 5

LCM of 10 and 5 is 10

Rename the two fractions using LCM as;

$$\frac{3}{10} = \frac{3}{10}$$

$$\frac{3}{5} = \frac{6}{10}$$

$$\text{Therefore } \frac{3}{10} + \frac{6}{10} = \frac{3+6}{10}$$

$$= \frac{9}{10}$$

EXERCISE

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1. Find the LCM of the denominators of the following pairs of fractions

A) $\frac{1}{2}, \frac{1}{3}$

b) $\frac{3}{8}, \frac{1}{6}$

c) $\frac{5}{6}, \frac{2}{9}$

d) $\frac{1}{5}, \frac{1}{15}$

2. Find the LCM of the denominators and then use it to find the sum of the following fractions

A) $\frac{2}{3} + \frac{1}{6}$

b) $\frac{2}{5} + \frac{2}{7}$

c) $\frac{1}{2} + \frac{2}{5}$

d) $\frac{3}{5} + \frac{1}{6}$

e) $\frac{1}{3} + \frac{1}{5}$

f) $\frac{3}{8} + \frac{1}{3}$

g) $\frac{2}{7} + \frac{1}{2}$

h) $\frac{1}{3} + \frac{5}{7}$

l) $\frac{2}{9} + \frac{1}{2}$

3. What is $\frac{2}{7}$ plus $\frac{1}{6}$?

4. Add one third to one quarter

5. Gesare bought $\frac{2}{5}$ kg of steak and $\frac{1}{2}$ kg of liver. If they were wrapped together, how much did the items weigh altogether?

******* STAY SAFE *******