Hot

Adding and Subtracting Fractions (basic)

Simple Rule :- You can only add (or subtract) two fractions if

THEY HAVE THE SAME DENOMINATOR.

Example 1

$\frac{3}{7} + \frac{2}{7}$
$= \frac{5}{7}$

Example 2

$\frac{7}{8} - \frac{1}{8}$
$= \frac{6}{8}\ (= \frac{3}{4})$

Example 3

$2\frac{3}{5} + 1\frac{4}{5}$
$= 3\frac{7}{5}$
$= 4\frac{2}{5}$

Example 4

$5\frac{5}{6} - 1\frac{1}{6}$
$= 4\frac{4}{6}$
$= 4\frac{2}{3}$

Exercise 2

1. Copy and complete the following :-

(a) $\frac{3}{5} + \frac{1}{5}$
$= \frac{\square}{5}$

(b) $\frac{7}{9} - \frac{5}{9}$
$= \frac{\square}{9}$

(c) $\frac{7}{10} - \frac{3}{10}$
$= \frac{\square}{10} = \frac{\square}{5}$

(d) $\frac{3}{8} + \frac{3}{8}$
$= \frac{\square}{8} = \frac{\square}{4}$

2. Copy the following and simplify :-

(a) $\frac{2}{7} + \frac{4}{7}$ (b) $\frac{1}{9} + \frac{5}{9}$ (c) $\frac{7}{8} - \frac{3}{8}$ (d) $\frac{4}{5} + \frac{4}{5}$

(e) $\frac{7}{11} - \frac{3}{11}$ (f) $\frac{2}{3} + \frac{2}{3}$ (g) $\frac{5}{6} + \frac{1}{6}$ (h) $\frac{7}{12} - \frac{1}{12}$

3. Copy the following and simplify :-

(a) $2\frac{1}{2} + 3\frac{1}{2}$ (b) $5\frac{3}{4} - 1\frac{1}{4}$ (c) $4\frac{1}{3} + 3\frac{1}{3}$ (d) $2\frac{7}{9} + 1\frac{4}{9}$

(e) $6\frac{3}{4} - 1\frac{1}{4}$ (f) $4\frac{2}{7} + 3\frac{3}{7}$ (g) $5\frac{7}{9} - 1\frac{2}{9}$ (h) $10\frac{4}{5} + 3\frac{3}{5}$

4. Of the $\frac{5}{8}$ kilometre to his school, David had walked $\frac{1}{8}$ km. How much further had he to go ?

5. Hat sizes go up in $\frac{1}{8}$'s of an inch at a time.
Billy wears a hat size $6\frac{7}{8}$. Alex is 3 sizes bigger than this.
What is Alex's hat size ?

6. John mixes $3\frac{3}{5}$ kg sand with $4\frac{4}{5}$ kg of cement.
What is the total weight of the mixture ?