

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Rational Numbers

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Sol.

Q2. Add  $\frac{3}{8}$  and  $\frac{-5}{12}$

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## Rational Numbers

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Sol.  $\frac{5}{9} + \frac{-10}{9}$   
 $= \frac{5+(-10)}{9}$  (Add the numerators and write over the same denominator)  
 $= \frac{-5}{9}$

Q2. Add  $\frac{3}{8}$  and  $\frac{-5}{12}$

Sol. Given fractions are unlike fractions.  
LCM (least common multiple) of the denominators 8 and 12

2	8, 12
2	4, 6
2	2, 3
3	1, 3
	1, 1

$$\text{LCM} = 2 \times 2 \times 2 \times 3 = 24$$

Now, we convert the given fractions to equivalent fractions with denominator 24.

We have,

$$\frac{3}{8} = \frac{3 \times 3}{8 \times 3} = \frac{9}{24} ; \quad \frac{-5}{12} = \frac{-5 \times 2}{12 \times 2} = \frac{-10}{24}$$

$$\frac{9}{24} + \frac{-10}{24} \quad (\text{Add the numerators and write over the same denominator})$$

$$= \frac{9+(-10)}{24} = \frac{-1}{24}$$