

Factorisation Fraction

I-)

$$\frac{48}{54} = \frac{2 \times 2 \times 2 \times 2 \times 3}{2 \times 3 \times 3 \times 3} = \frac{8}{9}$$

$$\frac{56}{24} = \frac{2 \times 2 \times 2 \times 7}{2 \times 2 \times 2 \times 3} = \frac{7}{3}$$

$$\frac{210}{231} = \frac{2 \times 5 \times 3 \times 7}{11 \times 3 \times 7} = \frac{10}{11}$$

$$\frac{91}{52} = \frac{7 \times 13}{2 \times 2 \times 13} = \frac{7}{4}$$

II-)

1) $A = 12356 \times 965 + 12356 \times 35 = 12356 \times (965 + 35) = 12356 \times 1000$
 $= 12\ 356\ 000$

2) $B = 45689 \times 2356 - 45689 \times 2355 = 45689 \times (2356 - 2355) = 45689 \times 1$
 $= 45\ 689$

3) $C = 563478 \times 253 + 563478 \times 625 - 563478 \times 378 = 563478 \times (253 + 625 - 378)$
 $= 563478 \times 500 = 281\ 739\ 000$

III-)

1) $D = 6x + 8y - 10z = 2(3x + 4y - 5z)$

2) $E = 24xy + 36xyz - 60xz = 12x(2y + 3yz - 5z)$