

SOLVING FRACTIONAL EQUATIONS

Solve for y: $\frac{2}{5}y + 3 = 9$

$$\frac{2}{5}y + 3 = 9$$

$$\frac{2}{5}y + 3 - 3 = 9 - 3$$

$$\frac{2}{5}y = 6$$

$$3 \times \frac{2}{5}y = 6 \times 5$$

$$2y = 30$$

$$\frac{2y}{2} = \frac{30}{2}$$

$$y = 15$$

ACTIVITY

1. Solve the following equations:

a. $\frac{a}{6} + 4 = 6$ b. $\frac{1}{2}h + 9 = 5$ c. $\frac{3y}{8} + 3 = 6$ d. $\frac{3}{4}n + 2 = 8$

e. $2\frac{1}{2}a + 6 = 16$ f. $\frac{3}{4}x + \frac{1}{2} = 5$ g. $\frac{p}{4} - 1 = 1$ h. $\frac{1}{5}m - 8 = 7$

i. $\frac{5}{6}k - 3 = 7$ j. $\frac{1}{3}m - \frac{1}{4}m + 1 = 23$ k. $\frac{2}{3}a - \frac{1}{3} = 1$

l. $\frac{b}{3} + 7 = 0$ m. $\frac{2}{3}p + 5 = 15$ n. $\frac{3y}{5} + 6 = 15$ o. $\frac{3}{4}n + 2 = 12$

p. $3\frac{1}{2}a + 4 = 6$ q. $\frac{3}{4}x + \frac{1}{2} = 10$ r. $\frac{p}{4} - 3 = 7$ s. $\frac{1}{3}m - 6 = 5$

u. $\frac{2}{5}k - 3 = 7$ v. $\frac{1}{3}m - \frac{1}{2}m + 1 = 27$ w. $\frac{2}{3}a - \frac{1}{3} = 11$