

NAME: _____

P.I. A.A.25: Solve equations involving fractional expressions

Solve:

1. $15 = -\frac{1}{2}(-12x + 2)$

[A] $\frac{3}{8}$ [B] $\frac{8}{3}$ [C] $\frac{7}{3}$ [D] $\frac{3}{7}$

2. $12 = \frac{1}{9}(36x + 18)$

[A] $\frac{7}{2}$ [B] $\frac{2}{5}$ [C] $\frac{2}{7}$ [D] $\frac{5}{2}$

3. Solve for x : $\frac{x-8}{7} = \frac{7}{10}$

[A] $-\frac{31}{10}$ [B] $\frac{129}{10}$ [C] $\frac{10}{129}$ [D] 129

4. Solve: $\frac{5}{8}y - 8 = 2$

[A] 15 [B] $6\frac{1}{4}$ [C] 16 [D] $-9\frac{3}{5}$

5. Solve for x : $\frac{x+1}{6} = \frac{4}{5}$

[A] $\frac{19}{5}$ [B] $\frac{29}{5}$ [C] $\frac{5}{19}$ [D] 19

Solve:

6. $\frac{6}{5}y - 4 = 8$

[A] $14\frac{2}{5}$ [B] 8 [C] $3\frac{1}{3}$ [D] 10

7. $\frac{x}{2} + \frac{x}{9} = 3$

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Solve:

$$8. \quad \frac{x}{2} + \frac{x}{6} = 2$$

$$13. \quad 0 = \frac{3}{18}y + 12$$

$$9. \quad -\frac{1}{4}(-16x - 8) = 18$$

$$14. \quad 0 = \frac{6}{17}y - 36$$

$$10. \quad 0 = \frac{8}{12}y - 40$$

$$15. \quad \frac{1}{6}(36x + 12) = 10$$

$$11. \quad -\frac{1}{3}(-9x - 3) = 17$$

$$16. \quad \frac{x}{2} + \frac{x}{8} = 8$$

$$12. \quad \frac{x}{2} + \frac{x}{4} = 6$$

$$17. \quad -\frac{1}{5}(-25x + 15) = 20$$

[1] B

[2] D

[3] B

[4] C

[5] A

[6] D

[7] $\frac{54}{11}$

[8] 3

[9] 4

[10] 60

[11] $\frac{16}{3}$

[12] 8

[13] -72

[14] 102

[15] $\frac{4}{3}$

[16] $\frac{64}{5}$

[17] $\frac{23}{5}$