Basic algebra with fractions

Grade 5 Pre-Algebra Worksheet

Solve for the variable. Answers should be expressed as "x=____".

1) $\dfrac{1}{3} + \dfrac{x}{3} = 2$

2) $x + \dfrac{2}{7} = \dfrac{4}{7}$

3) $x - \dfrac{1}{6} = \dfrac{11}{6}$

4) $\dfrac{12}{7} - x = \dfrac{4}{7}$

5) $x + \dfrac{1}{9} = \dfrac{7}{9}$

6) $2 - \dfrac{x}{11} = \dfrac{13}{11}$

7) $x - \dfrac{4}{5} = \dfrac{11}{5}$

8) $\dfrac{11}{15} - x = \dfrac{8}{15}$

9) $5 - \dfrac{x}{4} = \dfrac{5}{4}$

10) $\dfrac{3}{2} + x = 4$

11) $x + \dfrac{2}{3} = 3$

12) $\dfrac{3}{8} + x = \dfrac{3}{4}$

13) $\dfrac{7}{12} - x = \dfrac{1}{2}$

14) $x - \dfrac{1}{3} = \dfrac{4}{9}$

15) $x - \dfrac{1}{6} = \dfrac{2}{3}$

16) $\dfrac{5}{9} - x = \dfrac{1}{3}$

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Grade 5 Pre-Algebra Worksheet

Solve for the variable. Answers should be expressed as "x=____".

1) $\dfrac{1}{3} + \dfrac{x}{3} = 2$

x = 5

9) $5 - \dfrac{x}{4} = \dfrac{5}{4}$

x = 15

2) $x + \dfrac{2}{7} = \dfrac{4}{7}$

$x = \dfrac{2}{7}$

10) $\dfrac{3}{2} + x = 4$

$x = \dfrac{5}{2}$

3) $x - \dfrac{1}{6} = \dfrac{11}{6}$

x = 2

11) $x + \dfrac{2}{3} = 3$

$x = \dfrac{7}{3}$

4) $\dfrac{12}{7} - x = \dfrac{4}{7}$

$x = \dfrac{8}{7}$

12) $\dfrac{3}{8} + x = \dfrac{3}{4}$

$x = \dfrac{3}{8}$

5) $x + \dfrac{1}{9} = \dfrac{7}{9}$

$x = \dfrac{2}{3}$

13) $\dfrac{7}{12} - x = \dfrac{1}{2}$

$x = \dfrac{1}{12}$

6) $2 - \dfrac{x}{11} = \dfrac{13}{11}$

x = 9

14) $x - \dfrac{1}{3} = \dfrac{4}{9}$

$x = \dfrac{7}{9}$

7) $x - \dfrac{4}{5} = \dfrac{11}{5}$

x = 3

15) $x - \dfrac{1}{6} = \dfrac{2}{3}$

$x = \dfrac{5}{6}$

8) $\dfrac{11}{15} - x = \dfrac{8}{15}$

$x = \dfrac{3}{15}$

16) $\dfrac{5}{9} - x = \dfrac{1}{3}$

$x = \dfrac{2}{9}$