

Review of solving linear equations

Date _____

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Solve each equation.

1) $8(x - 5) = -88$

2) $-116 = 4k + 4(1 + 4k)$

3) $8(1 + 3a) = -160$

4) $101 = -5(3p - 2) + 2p$

5) $\frac{599}{100} = -\frac{4}{3}m + \frac{7}{4} - \frac{11}{5}m$

6) $\frac{104}{147} = \frac{29}{7}x - \frac{5}{3}x$

Solve each proportion.

7) $\frac{3}{10} = \frac{2}{b}$

8) $\frac{n}{2} = \frac{9}{10}$

9) $\frac{3}{8} = \frac{m + 8}{3}$

10) $\frac{3}{b - 6} = \frac{4}{5}$

$$11) \frac{2}{4} = \frac{m+10}{6}$$

$$12) \frac{10}{p-3} = \frac{9}{5}$$

$$13) \frac{k}{2} = \frac{k-1}{5}$$

$$14) \frac{9}{n} = \frac{10}{n+5}$$

$$15) \frac{x}{x-2} = \frac{5}{2}$$

$$16) \frac{5}{7} = \frac{x+10}{x}$$

$$17) \frac{10}{x+1} = \frac{6}{x+9}$$

$$18) \frac{x+2}{x-5} = \frac{10}{9}$$

$$19) \frac{a-6}{8} = \frac{a+10}{9}$$

$$20) \frac{2}{x-10} = \frac{8}{x-1}$$

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Solve each equation.

1) $8(x - 5) = -88$

 $\{-6\}$

2) $-116 = 4k + 4(1 + 4k)$

 $\{-6\}$

3) $8(1 + 3a) = -160$

 $\{-7\}$

4) $101 = -5(3p - 2) + 2p$

 $\{-7\}$

5) $\frac{599}{100} = -\frac{4}{3}m + \frac{7}{4} - \frac{11}{5}m$

 $\{-\frac{6}{5}\}$

6) $\frac{104}{147} = \frac{29}{7}x - \frac{5}{3}x$

 $\{\frac{2}{7}\}$

Solve each proportion.

7) $\frac{3}{10} = \frac{2}{b}$

 $\{6.66\}$

8) $\frac{n}{2} = \frac{9}{10}$

 $\{1.8\}$

9) $\frac{3}{8} = \frac{m + 8}{3}$

 $\{-6.87\}$

10) $\frac{3}{b - 6} = \frac{4}{5}$

 $\{9.75\}$

$$11) \frac{2}{4} = \frac{m+10}{6}$$

$\{-7\}$

$$12) \frac{10}{p-3} = \frac{9}{5}$$

$\{8.55\}$

$$13) \frac{k}{2} = \frac{k-1}{5}$$

$\{-0.66\}$

$$14) \frac{9}{n} = \frac{10}{n+5}$$

$\{45\}$

$$15) \frac{x}{x-2} = \frac{5}{2}$$

$\{3.33\}$

$$16) \frac{5}{7} = \frac{x+10}{x}$$

$\{-35\}$

$$17) \frac{10}{x+1} = \frac{6}{x+9}$$

$\{-21\}$

$$18) \frac{x+2}{x-5} = \frac{10}{9}$$

$\{68\}$

$$19) \frac{a-6}{8} = \frac{a+10}{9}$$

$\{134\}$

$$20) \frac{2}{x-10} = \frac{8}{x-1}$$

$\{13\}$