Algebra 1   Name_____

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Solve each equation.

1) $\frac{1}{3}k + 1 = \frac{19}{12}$

2) $\frac{8}{9}(7 + n) = \frac{112}{9}$

3) $-\frac{5138}{225} = 5\frac{3}{5}\left(-2\frac{4}{5} + n\right)$

4) $4\frac{1}{4}(2 + b) = \frac{663}{14}$

5) $-\frac{754}{595} = -1\frac{3}{10}\left(\frac{13}{7} + b\right)$

6) $-\frac{495}{112} = -\frac{6}{7} - b$

7) $-3\frac{1}{6}\left(r + 4\frac{2}{3}\right) = -\frac{1577}{108}$

8) $-\frac{7}{5} - \frac{3}{2}x = -\frac{26}{15}$

9) $-\frac{2}{7}b + 3\frac{1}{5} = \frac{249}{70}$

10) $\frac{55}{12} = \frac{7}{4}a + 2\frac{1}{4}$

11) $\frac{113}{4} = -6\left(-1\frac{5}{6} + n\right)$

12) $4\frac{5}{6}\left(m + \frac{9}{5}\right) = \frac{29}{20}$

13) $-\frac{293}{48} = -1\frac{1}{2}\left(n + 4\frac{5}{8}\right)$

14) $-6 - 6n = -12$

15) $4\frac{5}{6}(-1 + m) = \frac{377}{36}$

16) $-\frac{259}{52} = -2\frac{1}{10}x - \frac{7}{4}$

17) $-\frac{933}{100} = -\frac{7}{5}n - 1$

18) $\frac{21}{2} = 1\frac{1}{6}\left(n + 2\frac{1}{3}\right)$

19) $-\frac{21}{10} = \frac{3}{4}(-1 + a)$

20) $-\frac{43}{70} = -\frac{1}{4}\left(\frac{6}{7} + k\right)$

21) $-\frac{268}{15} = -2\left(1\frac{1}{10} + n\right)$

22) $10\frac{5}{6}(n - 2) = -\frac{247}{6}$

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Solve each equation.

1) $\frac{1}{3}k + 1 = \frac{19}{12}$ $\{\frac{7}{4}\}$

2) $\frac{8}{9}(7 + n) = \frac{112}{9}$

   $\{7\}$

3) $-\frac{5138}{225} = 5\frac{3}{5}\left(-2\frac{4}{5} + n\right)$ $\{-\frac{23}{18}\}$

4) $4\frac{1}{4}(2 + b) = \frac{663}{14}$ $\{\frac{64}{7}\}$

5) $-\frac{754}{595} = -1\frac{3}{10}\left(\frac{13}{7} + b\right)$ $\{-\frac{15}{17}\}$

6) $-\frac{495}{112} = -\frac{6}{7} - b$ $\{\frac{57}{16}\}$

7) $-3\frac{1}{6}\left(r + 4\frac{2}{3}\right) = -\frac{1577}{108}$ $\{-\frac{1}{18}\}$

8) $-\frac{7}{5} - \frac{3}{2}x = -\frac{26}{15}$ $\{\frac{2}{9}\}$

9) $-\frac{2}{7}b + 3\frac{1}{5} = \frac{249}{70}$ $\{-\frac{5}{4}\}$

10) $\frac{55}{12} = \frac{7}{4}a + 2\frac{1}{4}$ $\{\frac{4}{3}\}$

11) $\frac{113}{4} = -6\left(-1\frac{5}{6} + n\right)$ $\{-\frac{23}{8}\}$

12) $4\frac{5}{6}\left(m + \frac{9}{5}\right) = \frac{29}{20}$ $\{-\frac{3}{2}\}$

13) $-\frac{293}{48} = -1\frac{1}{2}\left(n + 4\frac{5}{8}\right)$ $\{-\frac{5}{9}\}$

14) $-6 - 6n = -12$

    $\{1\}$

15) $4\frac{5}{6}(-1 + m) = \frac{377}{36}$ $\{\frac{19}{6}\}$

16) $-\frac{259}{52} = -2\frac{1}{10}x - \frac{7}{4}$ $\{\frac{20}{13}\}$

17) $-\frac{933}{100} = -\frac{7}{5}n - 1$ $\{\frac{119}{20}\}$

18) $\frac{21}{2} = 1\frac{1}{6}\left(n + 2\frac{1}{3}\right)$ $\{\frac{20}{3}\}$

19) $-\frac{21}{10} = \frac{3}{4}(-1 + a)$ $\{-\frac{9}{5}\}$

20) $-\frac{43}{70} = -\frac{1}{4}\left(\frac{6}{7} + k\right)$ $\{\frac{8}{5}\}$

21) $-\frac{268}{15} = -2\left(1\frac{1}{10} + n\right)$ $\{\frac{47}{6}\}$

22) $10\frac{5}{6}(n - 2) = -\frac{247}{6}$ $\{-\frac{9}{5}\}$

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Solve each equation.

1) $-\dfrac{3}{4}\left(b+\dfrac{13}{9}\right)=-\dfrac{19}{84}$

2) $\dfrac{11}{9}x+3\dfrac{2}{3}=\dfrac{209}{48}$

3) $\dfrac{140}{27}=1\dfrac{5}{9}\left(v+\dfrac{4}{3}\right)$

4) $\dfrac{4}{7}x+3\dfrac{4}{5}=\dfrac{3389}{455}$

5) $-1\dfrac{1}{10}-2a=-\dfrac{607}{170}$

6) $-\dfrac{5}{3}\left(-5\dfrac{1}{7}+x\right)=\dfrac{85}{14}$

7) $1\dfrac{1}{8}\left(3\dfrac{7}{10}+v\right)=\dfrac{19107}{1520}$

8) $-\dfrac{6493}{120}=4\dfrac{3}{10}\left(3\dfrac{1}{6}+v\right)$

9) $-\dfrac{203}{15}=-2\dfrac{4}{5}\left(p+5\dfrac{5}{6}\right)$

10) $4\dfrac{2}{5}(a+3)=\dfrac{88}{5}$

11) $\dfrac{47}{2}=-2\dfrac{1}{6}p-2\dfrac{1}{2}$

12) $-\dfrac{584}{81}=-\dfrac{4}{3}+1\dfrac{5}{9}x$

13) $\dfrac{2}{3}a-\dfrac{7}{10}=-\dfrac{17}{15}$

14) $5\dfrac{2}{3}r+\dfrac{4}{9}=\dfrac{415}{9}$

15) $-\dfrac{413}{24}=-3\dfrac{7}{8}-\dfrac{8}{5}x$

16) $4=-1\dfrac{1}{4}\left(-\dfrac{6}{5}+v\right)$

17) $-6\dfrac{3}{5}\left(x+2\dfrac{3}{5}\right)=-\dfrac{12111}{350}$

18) $-\dfrac{23}{15}=-1\dfrac{1}{3}-\dfrac{1}{10}x$

19) $\dfrac{19}{63}=-1\dfrac{4}{9}\left(-\dfrac{9}{7}+p\right)$

20) $\dfrac{609}{40}=\dfrac{7}{4}\left(a+2\dfrac{1}{2}\right)$

21) $2=-1\dfrac{1}{4}\left(-3\dfrac{3}{5}+p\right)$

22) $-\dfrac{21}{10}=-x+4\dfrac{3}{10}$

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Solve each equation.

1) $-\dfrac{3}{4}\left(b+\dfrac{13}{9}\right)=-\dfrac{19}{84}$ $\left\{-\dfrac{8}{7}\right\}$

2) $\dfrac{11}{9}x+3\dfrac{2}{3}=\dfrac{209}{48}$ $\left\{\dfrac{9}{16}\right\}$

3) $\dfrac{140}{27}=1\dfrac{5}{9}\left(v+\dfrac{4}{3}\right)$

$\{2\}$

4) $\dfrac{4}{7}x+3\dfrac{4}{5}=\dfrac{3389}{455}$ $\left\{\dfrac{83}{13}\right\}$

5) $-1\dfrac{1}{10}-2a=-\dfrac{607}{170}$ $\left\{\dfrac{21}{17}\right\}$

6) $-\dfrac{5}{3}\left(-5\dfrac{1}{7}+x\right)=\dfrac{85}{14}$ $\left\{\dfrac{3}{2}\right\}$

7) $1\dfrac{1}{8}\left(3\dfrac{7}{10}+v\right)=\dfrac{19107}{1520}$ $\left\{\dfrac{142}{19}\right\}$

8) $-\dfrac{6493}{120}=4\dfrac{3}{10}\left(3\dfrac{1}{6}+v\right)$ $\left\{-\dfrac{63}{4}\right\}$

9) $-\dfrac{203}{15}=-2\dfrac{4}{5}\left(p+5\dfrac{5}{6}\right)$

$\{-1\}$

10) $4\dfrac{2}{5}(a+3)=\dfrac{88}{5}$

$\{1\}$

11) $\dfrac{47}{2}=-2\dfrac{1}{6}p-2\dfrac{1}{2}$

$\{-12\}$

12) $-\dfrac{584}{81}=-\dfrac{4}{3}+1\dfrac{5}{9}x$ $\left\{-\dfrac{34}{9}\right\}$

13) $\dfrac{2}{3}a-\dfrac{7}{10}=-\dfrac{17}{15}$ $\left\{-\dfrac{13}{20}\right\}$

14) $5\dfrac{2}{3}r+\dfrac{4}{9}=\dfrac{415}{9}$ $\left\{\dfrac{137}{17}\right\}$

15) $-\dfrac{413}{24}=-3\dfrac{7}{8}-\dfrac{8}{5}x$ $\left\{\dfrac{25}{3}\right\}$

16) $4=-1\dfrac{1}{4}\left(-\dfrac{6}{5}+v\right)$

$\{-2\}$

17) $-6\dfrac{3}{5}\left(x+2\dfrac{3}{5}\right)=-\dfrac{12111}{350}$ $\left\{\dfrac{37}{14}\right\}$

18) $-\dfrac{23}{15}=-1\dfrac{1}{3}-\dfrac{1}{10}x$

$\{2\}$

19) $\dfrac{19}{63}=-1\dfrac{4}{9}\left(-\dfrac{9}{7}+p\right)$ $\left\{\dfrac{14}{13}\right\}$

20) $\dfrac{609}{40}=\dfrac{7}{4}\left(a+2\dfrac{1}{2}\right)$ $\left\{\dfrac{31}{5}\right\}$

21) $2=-1\dfrac{1}{4}\left(-3\dfrac{3}{5}+p\right)$

$\{2\}$

22) $-\dfrac{21}{10}=-x+4\dfrac{3}{10}$ $\left\{\dfrac{32}{5}\right\}$

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Solve each equation.

1) $-\dfrac{9}{5} - 1\dfrac{5}{8}a = -\dfrac{10533}{760}$

2) $-\dfrac{16}{25} = -\dfrac{1}{5}\left(-2\dfrac{3}{10} + k\right)$

3) $-\dfrac{60857}{765} = -3\dfrac{4}{5}\left(n + 3\dfrac{1}{9}\right)$

4) $-\dfrac{65}{8} = -3\dfrac{1}{4}\left(\dfrac{4}{5} + n\right)$

5) $-\dfrac{3}{5}\left(4\dfrac{1}{9} + x\right) = \dfrac{17}{15}$

6) $3\left(-\dfrac{11}{9} + r\right) = 0$

7) $-\dfrac{143}{600} = \dfrac{11}{10}\left(x + \dfrac{4}{3}\right)$

8) $\dfrac{15}{8} + \dfrac{11}{9}a = \dfrac{71}{120}$

9) $-v + 4\dfrac{1}{8} = \dfrac{727}{120}$

10) $\dfrac{126}{95} = -\dfrac{4}{3}\left(1\dfrac{9}{10} + p\right)$

11) $\dfrac{1}{2}\left(x + \dfrac{5}{7}\right) = \dfrac{477}{91}$

12) $-\dfrac{248}{95} = \dfrac{9}{5}\left(p - 1\dfrac{5}{9}\right)$

13) $-\dfrac{1}{2} + 4\dfrac{2}{3}b = -\dfrac{395}{6}$

14) $\dfrac{144}{95} = \dfrac{2}{5}(-1 + v)$

15) $-\dfrac{1}{2} - \dfrac{5}{3}n = -\dfrac{457}{34}$

16) $\dfrac{1229}{72} = -\dfrac{5}{8}\left(-9\dfrac{1}{5} + x\right)$

17) $-n - 1\dfrac{1}{5} = -\dfrac{43}{15}$

18) $-\dfrac{1}{2} - \dfrac{1}{3}x = -\dfrac{5}{6}$

19) $\dfrac{113}{80} = \dfrac{1}{10} - 1\dfrac{1}{2}x$

20) $\dfrac{11}{28} = -\dfrac{4}{7}x + 5\dfrac{1}{2}$

21) $2\dfrac{2}{3}\left(x + 3\dfrac{8}{9}\right) = \dfrac{2048}{135}$

22) $1\dfrac{5}{9}\left(-1\dfrac{6}{7} + p\right) = -\dfrac{25}{3}$

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Solve each equation.

1) $-\dfrac{9}{5} - 1\dfrac{5}{8}a = -\dfrac{10533}{760}$ $\{\dfrac{141}{19}\}$

2) $-\dfrac{16}{25} = -\dfrac{1}{5}\left(-2\dfrac{3}{10} + k\right)$ $\{\dfrac{11}{2}\}$

3) $-\dfrac{60857}{765} = -3\dfrac{4}{5}\left(n + 3\dfrac{1}{9}\right)$ $\{\dfrac{303}{17}\}$

4) $-\dfrac{65}{8} = -3\dfrac{1}{4}\left(\dfrac{4}{5} + n\right)$ $\{\dfrac{17}{10}\}$

5) $-\dfrac{3}{5}\left(4\dfrac{1}{9} + x\right) = \dfrac{17}{15}$

  $\{-6\}$

6) $3\left(-\dfrac{11}{9} + r\right) = 0$ $\{\dfrac{11}{9}\}$

7) $-\dfrac{143}{600} = \dfrac{11}{10}\left(x + \dfrac{4}{3}\right)$ $\{-\dfrac{31}{20}\}$

8) $\dfrac{15}{8} + \dfrac{11}{9}a = \dfrac{71}{120}$ $\{-\dfrac{21}{20}\}$

9) $-v + 4\dfrac{1}{8} = \dfrac{727}{120}$ $\{-\dfrac{29}{15}\}$

10) $\dfrac{126}{95} = -\dfrac{4}{3}\left(1\dfrac{9}{10} + p\right)$ $\{-\dfrac{55}{19}\}$

11) $\dfrac{1}{2}\left(x + \dfrac{5}{7}\right) = \dfrac{477}{91}$ $\{\dfrac{127}{13}\}$

12) $-\dfrac{248}{95} = \dfrac{9}{5}\left(p - 1\dfrac{5}{9}\right)$ $\{\dfrac{2}{19}\}$

13) $-\dfrac{1}{2} + 4\dfrac{2}{3}b = -\dfrac{395}{6}$

  $\{-14\}$

14) $\dfrac{144}{95} = \dfrac{2}{5}(-1 + v)$ $\{\dfrac{91}{19}\}$

15) $-\dfrac{1}{2} - \dfrac{5}{3}n = -\dfrac{457}{34}$ $\{\dfrac{132}{17}\}$

16) $\dfrac{1229}{72} = -\dfrac{5}{8}\left(-9\dfrac{1}{5} + x\right)$ $\{-\dfrac{163}{9}\}$

17) $-n - 1\dfrac{1}{5} = -\dfrac{43}{15}$ $\{\dfrac{5}{3}\}$

18) $-\dfrac{1}{2} - \dfrac{1}{3}x = -\dfrac{5}{6}$

  $\{1\}$

19) $\dfrac{113}{80} = \dfrac{1}{10} - 1\dfrac{1}{2}x$ $\{-\dfrac{7}{8}\}$

20) $\dfrac{11}{28} = -\dfrac{4}{7}x + 5\dfrac{1}{2}$ $\{\dfrac{143}{16}\}$

21) $2\dfrac{2}{3}\left(x + 3\dfrac{8}{9}\right) = \dfrac{2048}{135}$ $\{\dfrac{9}{5}\}$

22) $1\dfrac{5}{9}\left(-1\dfrac{6}{7} + p\right) = -\dfrac{25}{3}$ $\{-\dfrac{7}{2}\}$

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Solve each equation.

1) $-\dfrac{8}{9}(-1 + n) = -\dfrac{1384}{171}$

2) $-5(-3 + r) = -\dfrac{715}{19}$

3) $\dfrac{1}{3}\left(b - 10\dfrac{1}{2}\right) = -\dfrac{335}{78}$

4) $-2\left(5\dfrac{7}{9} + p\right) = -\dfrac{529}{45}$

5) $-\dfrac{29203}{364} = 5\dfrac{3}{7}\left(m - 4\dfrac{5}{8}\right)$

6) $-\dfrac{2}{5}m + 3\dfrac{4}{9} = \dfrac{247}{90}$

7) $-\dfrac{575}{56} = 3\dfrac{2}{7}\left(x - 3\dfrac{5}{8}\right)$

8) $\dfrac{279}{25} = \dfrac{9}{10}k + 3\dfrac{3}{5}$

9) $1\dfrac{1}{2}x - 2 = -2$

10) $\dfrac{15}{8}n - 3\dfrac{4}{7} = -\dfrac{1535}{224}$

11) $\dfrac{1}{3} - 3\dfrac{1}{9}m = -\dfrac{2083}{135}$

12) $4\dfrac{1}{3}\left(3\dfrac{1}{9} + k\right) = \dfrac{11479}{270}$

13) $-3\dfrac{7}{8}v + 6\dfrac{1}{4} = \dfrac{67}{7}$

14) $\dfrac{1}{3}\left(-\dfrac{1}{3} + x\right) = \dfrac{1}{72}$

15) $\dfrac{49}{10} = -3\dfrac{1}{2}\left(x - \dfrac{7}{5}\right)$

16) $-2 - p = -\dfrac{21}{2}$

17) $\dfrac{15}{8}\left(x + \dfrac{11}{10}\right) = \dfrac{651}{32}$

18) $-1\dfrac{6}{7} + 1\dfrac{1}{8}n = \dfrac{597}{112}$

19) $1\dfrac{7}{8}\left(5\dfrac{9}{10} + r\right) = \dfrac{429}{16}$

20) $-8\left(-3\dfrac{1}{4} + m\right) = 30$

21) $-1\dfrac{9}{10}\left(2\dfrac{5}{6} + x\right) = -\dfrac{1501}{180}$

22) $-\dfrac{241}{40} = 3\dfrac{1}{5}b - 3\dfrac{5}{8}$

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Solve each equation.

1) $-\dfrac{8}{9}(-1+n)=-\dfrac{1384}{171}$ $\left\{\dfrac{192}{19}\right\}$

2) $-5(-3+r)=-\dfrac{715}{19}$ $\left\{\dfrac{200}{19}\right\}$

3) $\dfrac{1}{3}\left(b-10\dfrac{1}{2}\right)=-\dfrac{335}{78}$ $\left\{-\dfrac{31}{13}\right\}$

4) $-2\left(5\dfrac{7}{9}+p\right)=-\dfrac{529}{45}$ $\left\{\dfrac{1}{10}\right\}$

5) $-\dfrac{29203}{364}=5\dfrac{3}{7}\left(m-4\dfrac{5}{8}\right)$ $\left\{-\dfrac{132}{13}\right\}$

6) $-\dfrac{2}{5}m+3\dfrac{4}{9}=\dfrac{247}{90}$ $\left\{\dfrac{7}{4}\right\}$

7) $-\dfrac{575}{56}=3\dfrac{2}{7}\left(x-3\dfrac{5}{8}\right)$ $\left\{\dfrac{1}{2}\right\}$

8) $\dfrac{279}{25}=\dfrac{9}{10}k+3\dfrac{3}{5}$ $\left\{\dfrac{42}{5}\right\}$

9) $1\dfrac{1}{2}x-2=-2$

   $\{0\}$

10) $\dfrac{15}{8}n-3\dfrac{4}{7}=-\dfrac{1535}{224}$ $\left\{-\dfrac{7}{4}\right\}$

11) $\dfrac{1}{3}-3\dfrac{1}{9}m=-\dfrac{2083}{135}$ $\left\{\dfrac{76}{15}\right\}$

12) $4\dfrac{1}{3}\left(3\dfrac{1}{9}+k\right)=\dfrac{11479}{270}$ $\left\{\dfrac{67}{10}\right\}$

13) $-3\dfrac{7}{8}v+6\dfrac{1}{4}=\dfrac{67}{7}$ $\left\{-\dfrac{6}{7}\right\}$

14) $\dfrac{1}{3}\left(-\dfrac{1}{3}+x\right)=\dfrac{1}{72}$ $\left\{\dfrac{3}{8}\right\}$

15) $\dfrac{49}{10}=-3\dfrac{1}{2}\left(x-\dfrac{7}{5}\right)$

   $\{0\}$

16) $-2-p=-\dfrac{21}{2}$ $\left\{\dfrac{17}{2}\right\}$

17) $\dfrac{15}{8}\left(x+\dfrac{11}{10}\right)=\dfrac{651}{32}$ $\left\{\dfrac{39}{4}\right\}$

18) $-1\dfrac{6}{7}+1\dfrac{1}{8}n=\dfrac{597}{112}$ $\left\{\dfrac{115}{18}\right\}$

19) $1\dfrac{7}{8}\left(5\dfrac{9}{10}+r\right)=\dfrac{429}{16}$ $\left\{\dfrac{42}{5}\right\}$

20) $-8\left(-3\dfrac{1}{4}+m\right)=30$ $\left\{-\dfrac{1}{2}\right\}$

21) $-1\dfrac{9}{10}\left(2\dfrac{5}{6}+x\right)=-\dfrac{1501}{180}$ $\left\{\dfrac{14}{9}\right\}$

22) $-\dfrac{241}{40}=3\dfrac{1}{5}b-3\dfrac{5}{8}$ $\left\{-\dfrac{3}{4}\right\}$

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Solve each equation.

1) $\frac{301}{72} = 3\frac{1}{2}\left(-\frac{5}{9} + b\right)$

2) $-\frac{4136}{595} = 2\frac{2}{7}\left(x - 3\frac{1}{10}\right)$

3) $-1\frac{3}{10}(x - 1) = -\frac{91}{32}$

4) $\frac{1}{2}\left(x + \frac{8}{9}\right) = \frac{29}{12}$

5) $\frac{130}{77} = -\frac{5}{4}\left(x + 2\frac{2}{7}\right)$

6) $\frac{14}{9}n + \frac{2}{9} = \frac{37}{9}$

7) $-10 = -4 + \frac{3}{2}r$

8) $\frac{13}{7}\left(-\frac{4}{5} + n\right) = \frac{533}{60}$

9) $\frac{2}{21} = -\frac{1}{3}\left(x - 2\frac{2}{7}\right)$

10) $\frac{38}{7} = 2 - 3\frac{3}{7}n$

11) $2\frac{1}{3} - 2m = -\frac{8}{9}$

12) $\frac{21309}{560} = 5\frac{1}{10}n + 1\frac{5}{7}$

13) $\frac{581}{33} = -3\frac{8}{9}\left(-\frac{9}{5} + n\right)$

14) $\frac{43}{24} = \frac{3}{4}k + \frac{5}{3}$

15) $0 = 2\frac{3}{10}(b + 2)$

16) $1\frac{1}{2}\left(x + 4\frac{7}{8}\right) = \frac{591}{80}$

17) $\frac{67}{6} = -\frac{7}{4}k + \frac{2}{3}$

18) $-\frac{141}{10} = -2\frac{9}{10}n + \frac{2}{5}$

19) $\frac{9}{4} = 3\frac{3}{4}\left(p - \frac{7}{5}\right)$

20) $2\frac{7}{9} + 4\frac{1}{6}m = \frac{1775}{234}$

21) $-1\frac{1}{4}\left(b + 3\frac{3}{5}\right) = -\frac{271}{18}$

22) $\frac{11}{6} + 3\frac{3}{5}a = \frac{271}{30}$

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Solve each equation.

1) $\dfrac{301}{72} = 3\dfrac{1}{2}\left(-\dfrac{5}{9} + b\right)$ $\left\{\dfrac{7}{4}\right\}$

2) $-\dfrac{4136}{595} = 2\dfrac{2}{7}\left(x - 3\dfrac{1}{10}\right)$ $\left\{\dfrac{1}{17}\right\}$

3) $-1\dfrac{3}{10}(x - 1) = -\dfrac{91}{32}$ $\left\{\dfrac{51}{16}\right\}$

4) $\dfrac{1}{2}\left(x + \dfrac{8}{9}\right) = \dfrac{29}{12}$ $\left\{\dfrac{71}{18}\right\}$

5) $\dfrac{130}{77} = -\dfrac{5}{4}\left(x + 2\dfrac{2}{7}\right)$ $\left\{-\dfrac{40}{11}\right\}$

6) $\dfrac{14}{9}n + \dfrac{2}{9} = \dfrac{37}{9}$ $\left\{\dfrac{5}{2}\right\}$

7) $-10 = -4 + \dfrac{3}{2}r$

   $\{-4\}$

8) $\dfrac{13}{7}\left(-\dfrac{4}{5} + n\right) = \dfrac{533}{60}$ $\left\{\dfrac{67}{12}\right\}$

9) $\dfrac{2}{21} = -\dfrac{1}{3}\left(x - 2\dfrac{2}{7}\right)$

   $\{2\}$

10) $\dfrac{38}{7} = 2 - 3\dfrac{3}{7}n$

   $\{-1\}$

11) $2\dfrac{1}{3} - 2m = -\dfrac{8}{9}$ $\left\{\dfrac{29}{18}\right\}$

12) $\dfrac{21309}{560} = 5\dfrac{1}{10}n + 1\dfrac{5}{7}$ $\left\{\dfrac{57}{8}\right\}$

13) $\dfrac{581}{33} = -3\dfrac{8}{9}\left(-\dfrac{9}{5} + n\right)$ $\left\{-\dfrac{30}{11}\right\}$

14) $\dfrac{43}{24} = \dfrac{3}{4}k + \dfrac{5}{3}$ $\left\{\dfrac{1}{6}\right\}$

15) $0 = 2\dfrac{3}{10}(b + 2)$

   $\{-2\}$

16) $1\dfrac{1}{2}\left(x + 4\dfrac{7}{8}\right) = \dfrac{591}{80}$ $\left\{\dfrac{1}{20}\right\}$

17) $\dfrac{67}{6} = -\dfrac{7}{4}k + \dfrac{2}{3}$

   $\{-6\}$

18) $-\dfrac{141}{10} = -2\dfrac{9}{10}n + \dfrac{2}{5}$

   $\{5\}$

19) $\dfrac{9}{4} = 3\dfrac{3}{4}\left(p - \dfrac{7}{5}\right)$

   $\{2\}$

20) $2\dfrac{7}{9} + 4\dfrac{1}{6}m = \dfrac{1775}{234}$ $\left\{\dfrac{15}{13}\right\}$

21) $-1\dfrac{1}{4}\left(b + 3\dfrac{3}{5}\right) = -\dfrac{271}{18}$ $\left\{\dfrac{76}{9}\right\}$

22) $\dfrac{11}{6} + 3\dfrac{3}{5}a = \dfrac{271}{30}$

   $\{2\}$

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Solve each equation.

1) $\dfrac{67}{9} = 4\dfrac{1}{3} + 1\dfrac{7}{9}x$

2) $-\dfrac{517}{36} = -1\dfrac{5}{6}\left(-\dfrac{4}{3} + b\right)$

3) $-\dfrac{7}{5}\left(-\dfrac{5}{6} + m\right) = \dfrac{623}{30}$

4) $-2\dfrac{7}{8}\left(p + 1\dfrac{1}{3}\right) = -\dfrac{253}{48}$

5) $\dfrac{707}{330} = 5\dfrac{5}{6}r - 2\dfrac{1}{10}$

6) $4\dfrac{5}{9}\left(4\dfrac{2}{5} + m\right) = \dfrac{1681}{60}$

7) $\dfrac{289}{108} = 4\dfrac{1}{9} + \dfrac{5}{6}b$

8) $\dfrac{10}{7}x + \dfrac{1}{3} = \dfrac{299}{42}$

9) $\dfrac{175}{2} = 9\dfrac{1}{3}\left(\dfrac{1}{2} + n\right)$

10) $-2\dfrac{1}{8} + \dfrac{5}{3}a = \dfrac{29}{24}$

11) $-2\dfrac{5}{6}\left(b + \dfrac{3}{4}\right) = -\dfrac{935}{96}$

12) $-\dfrac{740}{33} = -2\left(\dfrac{5}{3} + n\right)$

13) $1\dfrac{3}{7}(-1 + x) = 0$

14) $\dfrac{19}{18} = -\dfrac{1}{2}n + 2$

15) $2\dfrac{3}{4}\left(\dfrac{5}{9} + a\right) = \dfrac{2497}{144}$

16) $10\left(\dfrac{2}{3} + x\right) = -\dfrac{755}{24}$

17) $-\dfrac{125}{21} = -\dfrac{9}{7} - 2\dfrac{2}{3}n$

18) $\dfrac{1239}{275} = \dfrac{7}{5}\left(1\dfrac{2}{5} + k\right)$

19) $\dfrac{111}{40} = \dfrac{1}{2} + 1\dfrac{3}{4}x$

20) $-\dfrac{461}{170} = -2\dfrac{1}{2}k + \dfrac{17}{10}$

21) $2\dfrac{3}{5} + \dfrac{4}{7}m = \dfrac{83}{55}$

22) $\dfrac{3}{2}\left(-\dfrac{9}{5} + x\right) = \dfrac{399}{40}$

Algebra 1   Name_____

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Solve each equation.

1) $\frac{67}{9} = 4\frac{1}{3} + 1\frac{7}{9}x$ $\{\frac{7}{4}\}$

2) $-\frac{517}{36} = -1\frac{5}{6}\left(-\frac{4}{3} + b\right)$ $\{\frac{55}{6}\}$

3) $-\frac{7}{5}\left(-\frac{5}{6} + m\right) = \frac{623}{30}$

$\{-14\}$

4) $-2\frac{7}{8}\left(p + 1\frac{1}{3}\right) = -\frac{253}{48}$ $\{\frac{1}{2}\}$

5) $\frac{707}{330} = 5\frac{5}{6}r - 2\frac{1}{10}$ $\{\frac{8}{11}\}$

6) $4\frac{5}{9}\left(4\frac{2}{5} + m\right) = \frac{1681}{60}$ $\{\frac{7}{4}\}$

7) $\frac{289}{108} = 4\frac{1}{9} + \frac{5}{6}b$ $\{-\frac{31}{18}\}$

8) $\frac{10}{7}x + \frac{1}{3} = \frac{299}{42}$ $\{\frac{19}{4}\}$

9) $\frac{175}{2} = 9\frac{1}{3}\left(\frac{1}{2} + n\right)$ $\{\frac{71}{8}\}$

10) $-2\frac{1}{8} + \frac{5}{3}a = \frac{29}{24}$

$\{2\}$

11) $-2\frac{5}{6}\left(b + \frac{3}{4}\right) = -\frac{935}{96}$ $\{\frac{43}{16}\}$

12) $-\frac{740}{33} = -2\left(\frac{5}{3} + n\right)$ $\{\frac{105}{11}\}$

13) $1\frac{3}{7}(-1 + x) = 0$

$\{1\}$

14) $\frac{19}{18} = -\frac{1}{2}n + 2$ $\{\frac{17}{9}\}$

15) $2\frac{3}{4}\left(\frac{5}{9} + a\right) = \frac{2497}{144}$ $\{\frac{23}{4}\}$

16) $10\left(\frac{2}{3} + x\right) = -\frac{755}{24}$ $\{-\frac{61}{16}\}$

17) $-\frac{125}{21} = -\frac{9}{7} - 2\frac{2}{3}n$ $\{\frac{7}{4}\}$

18) $\frac{1239}{275} = \frac{7}{5}\left(1\frac{2}{5} + k\right)$ $\{\frac{20}{11}\}$

19) $\frac{111}{40} = \frac{1}{2} + 1\frac{3}{4}x$ $\{\frac{13}{10}\}$

20) $-\frac{461}{170} = -2\frac{1}{2}k + \frac{17}{10}$ $\{\frac{30}{17}\}$

21) $2\frac{3}{5} + \frac{4}{7}m = \frac{83}{55}$ $\{-\frac{21}{11}\}$

22) $\frac{3}{2}\left(-\frac{9}{5} + x\right) = \frac{399}{40}$ $\{\frac{169}{20}\}$

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Solve each equation.

1) $\dfrac{4351}{400} = 1\dfrac{9}{10}\left(\dfrac{3}{5} + x\right)$

2) $-37 = -2\left(r + 5\dfrac{1}{2}\right)$

3) $-(v - 9) = -\dfrac{3}{7}$

4) $\dfrac{54}{11} = 4b + 2$

5) $\dfrac{4}{3}\left(3\dfrac{1}{2} + n\right) = \dfrac{218}{33}$

6) $\dfrac{2}{3}\left(5\dfrac{1}{2} + v\right) = \dfrac{22}{9}$

7) $\dfrac{47}{21} = \dfrac{2}{3}x + 1$

8) $-1\dfrac{3}{8} + 4\dfrac{3}{7}n = \dfrac{2279}{56}$

9) $-\dfrac{875}{72} = -3\dfrac{1}{8}(x - 4)$

10) $2\dfrac{2}{3}(1 + r) = 16$

11) $-\dfrac{1375}{28} = -2\dfrac{3}{4}(b + 10)$

12) $\dfrac{1435}{51} = 4\dfrac{2}{3}\left(\dfrac{1}{2} + v\right)$

13) $-\dfrac{1}{2}(x + 6) = -\dfrac{81}{26}$

14) $-\dfrac{4}{5} + \dfrac{3}{2}m = \dfrac{224}{95}$

15) $\dfrac{1}{2}\left(-\dfrac{11}{10} + x\right) = \dfrac{97}{40}$

16) $9 + 2a = \dfrac{12}{7}$

17) $-\dfrac{9683}{1064} = 3\dfrac{2}{7}\left(-2\dfrac{7}{8} + p\right)$

18) $-\dfrac{3}{2}x + 2\dfrac{7}{10} = \dfrac{87}{35}$

19) $-\dfrac{36}{5} = 4\dfrac{4}{5}\left(4\dfrac{1}{2} + v\right)$

20) $\dfrac{497}{48} = \dfrac{7}{4}\left(5\dfrac{1}{3} + p\right)$

21) $-\dfrac{217}{76} = \dfrac{3}{4}x - 1\dfrac{3}{4}$

22) $-\dfrac{245}{18} = \dfrac{7}{9}\left(x - \dfrac{1}{2}\right)$

Algebra 1   Name_____

Assignment   Date_____ Period_____

Solve each equation.

1) $\dfrac{4351}{400} = 1\dfrac{9}{10}\left(\dfrac{3}{5} + x\right)$ $\{\dfrac{41}{8}\}$

2) $-37 = -2\left(r + 5\dfrac{1}{2}\right)$

$\{13\}$

3) $-(v - 9) = -\dfrac{3}{7}$ $\{\dfrac{66}{7}\}$

4) $\dfrac{54}{11} = 4b + 2$ $\{\dfrac{8}{11}\}$

5) $\dfrac{4}{3}\left(3\dfrac{1}{2} + n\right) = \dfrac{218}{33}$ $\{\dfrac{16}{11}\}$

6) $\dfrac{2}{3}\left(5\dfrac{1}{2} + v\right) = \dfrac{22}{9}$ $\{-\dfrac{11}{6}\}$

7) $\dfrac{47}{21} = \dfrac{2}{3}x + 1$ $\{\dfrac{13}{7}\}$

8) $-1\dfrac{3}{8} + 4\dfrac{3}{7}n = \dfrac{2279}{56}$ $\{\dfrac{19}{2}\}$

9) $-\dfrac{875}{72} = -3\dfrac{1}{8}(x - 4)$ $\{\dfrac{71}{9}\}$

10) $2\dfrac{2}{3}(1 + r) = 16$

$\{5\}$

11) $-\dfrac{1375}{28} = -2\dfrac{3}{4}(b + 10)$ $\{\dfrac{55}{7}\}$

12) $\dfrac{1435}{51} = 4\dfrac{2}{3}\left(\dfrac{1}{2} + v\right)$ $\{\dfrac{94}{17}\}$

13) $-\dfrac{1}{2}(x + 6) = -\dfrac{81}{26}$ $\{\dfrac{3}{13}\}$

14) $-\dfrac{4}{5} + \dfrac{3}{2}m = \dfrac{224}{95}$ $\{\dfrac{40}{19}\}$

15) $\dfrac{1}{2}\left(-\dfrac{11}{10} + x\right) = \dfrac{97}{40}$ $\{\dfrac{119}{20}\}$

16) $9 + 2a = \dfrac{12}{7}$ $\{-\dfrac{51}{14}\}$

17) $-\dfrac{9683}{1064} = 3\dfrac{2}{7}\left(-2\dfrac{7}{8} + p\right)$ $\{\dfrac{2}{19}\}$

18) $-\dfrac{3}{2}x + 2\dfrac{7}{10} = \dfrac{87}{35}$ $\{\dfrac{1}{7}\}$

19) $-\dfrac{36}{5} = 4\dfrac{4}{5}\left(4\dfrac{1}{2} + v\right)$

$\{-6\}$

20) $\dfrac{497}{48} = \dfrac{7}{4}\left(5\dfrac{1}{3} + p\right)$ $\{\dfrac{7}{12}\}$

21) $-\dfrac{217}{76} = \dfrac{3}{4}x - 1\dfrac{3}{4}$ $\{-\dfrac{28}{19}\}$

22) $-\dfrac{245}{18} = \dfrac{7}{9}\left(x - \dfrac{1}{2}\right)$

$\{-17\}$

Algebra 1   Name_____

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Solve each equation.

1) $\dfrac{131}{28} = \dfrac{5}{4} + 6p$

2) $\dfrac{2669}{72} = 5\dfrac{2}{3}\left(\dfrac{9}{8} + x\right)$

3) $-\dfrac{271}{140} = -\dfrac{5}{4} + 1\dfrac{1}{7}p$

4) $\dfrac{189}{88} = \dfrac{9}{8}(2 + b)$

5) $\dfrac{4}{3}n + 1 = \dfrac{1}{5}$

6) $2\dfrac{9}{10}\left(-\dfrac{1}{3} + a\right) = -\dfrac{1769}{480}$

7) $\dfrac{17}{4} = 4\dfrac{1}{4} - \dfrac{14}{9}r$

8) $4\dfrac{1}{4} - \dfrac{1}{8}r = \dfrac{95}{22}$

9) $-\dfrac{53}{9} = 2\left(m - \dfrac{3}{2}\right)$

10) $\dfrac{55}{26} = \dfrac{3}{2}\left(n + \dfrac{1}{3}\right)$

11) $-1\dfrac{5}{6}\left(2\dfrac{3}{4} + x\right) = -\dfrac{11}{8}$

12) $-2\dfrac{5}{6}\left(\dfrac{3}{4} + n\right) = \dfrac{17}{9}$

13) $\dfrac{43}{96} = \dfrac{1}{8}\left(-2\dfrac{1}{6} + x\right)$

14) $-1\dfrac{1}{4}m + 5\dfrac{1}{8} = \dfrac{427}{136}$

15) $4\dfrac{7}{10}x + 2 = \dfrac{1817}{180}$

16) $-\dfrac{1}{90} = 3\dfrac{5}{6}n + \dfrac{1}{2}$

17) $4\dfrac{1}{5}n - 3\dfrac{1}{3} = \dfrac{53}{30}$

18) $-7n + \dfrac{1}{2} = \dfrac{109}{8}$

19) $-1\dfrac{6}{7}k + \dfrac{6}{7} = \dfrac{61}{56}$

20) $-\dfrac{6}{7} = -\dfrac{1}{7}\left(\dfrac{2}{5} + n\right)$

21) $1\dfrac{2}{5}\left(-\dfrac{2}{3} + k\right) = \dfrac{2597}{255}$

22) $\dfrac{461}{56} = \dfrac{1}{2}b + 3\dfrac{1}{8}$

Algebra 1   Name_____

Assignment   Date_____ Period_____

Solve each equation.

1) $\dfrac{131}{28} = \dfrac{5}{4} + 6p$ $\quad\{\dfrac{4}{7}\}$

2) $\dfrac{2669}{72} = 5\dfrac{2}{3}\left(\dfrac{9}{8} + x\right)$ $\quad\{\dfrac{65}{12}\}$

3) $-\dfrac{271}{140} = -\dfrac{5}{4} + 1\dfrac{1}{7}p$ $\quad\{-\dfrac{3}{5}\}$

4) $\dfrac{189}{88} = \dfrac{9}{8}(2 + b)$ $\quad\{-\dfrac{1}{11}\}$

5) $\dfrac{4}{3}n + 1 = \dfrac{1}{5}$ $\quad\{-\dfrac{3}{5}\}$

6) $2\dfrac{9}{10}\left(-\dfrac{1}{3} + a\right) = -\dfrac{1769}{480}$ $\quad\{-\dfrac{15}{16}\}$

7) $\dfrac{17}{4} = 4\dfrac{1}{4} - \dfrac{14}{9}r$
$\quad\{0\}$

8) $4\dfrac{1}{4} - \dfrac{1}{8}r = \dfrac{95}{22}$ $\quad\{-\dfrac{6}{11}\}$

9) $-\dfrac{53}{9} = 2\left(m - \dfrac{3}{2}\right)$ $\quad\{-\dfrac{13}{9}\}$

10) $\dfrac{55}{26} = \dfrac{3}{2}\left(n + \dfrac{1}{3}\right)$ $\quad\{\dfrac{14}{13}\}$

11) $-1\dfrac{5}{6}\left(2\dfrac{3}{4} + x\right) = -\dfrac{11}{8}$
$\quad\{-2\}$

12) $-2\dfrac{5}{6}\left(\dfrac{3}{4} + n\right) = \dfrac{17}{9}$ $\quad\{-\dfrac{17}{12}\}$

13) $\dfrac{43}{96} = \dfrac{1}{8}\left(-2\dfrac{1}{6} + x\right)$ $\quad\{\dfrac{23}{4}\}$

14) $-1\dfrac{1}{4}m + 5\dfrac{1}{8} = \dfrac{427}{136}$ $\quad\{\dfrac{27}{17}\}$

15) $4\dfrac{7}{10}x + 2 = \dfrac{1817}{180}$ $\quad\{\dfrac{31}{18}\}$

16) $-\dfrac{1}{90} = 3\dfrac{5}{6}n + \dfrac{1}{2}$ $\quad\{-\dfrac{2}{15}\}$

17) $4\dfrac{1}{5}n - 3\dfrac{1}{3} = \dfrac{53}{30}$ $\quad\{\dfrac{17}{14}\}$

18) $-7n + \dfrac{1}{2} = \dfrac{109}{8}$ $\quad\{-\dfrac{15}{8}\}$

19) $-1\dfrac{6}{7}k + \dfrac{6}{7} = \dfrac{61}{56}$ $\quad\{-\dfrac{1}{8}\}$

20) $-\dfrac{6}{7} = -\dfrac{1}{7}\left(\dfrac{2}{5} + n\right)$ $\quad\{\dfrac{28}{5}\}$

21) $1\dfrac{2}{5}\left(-\dfrac{2}{3} + k\right) = \dfrac{2597}{255}$ $\quad\{\dfrac{135}{17}\}$

22) $\dfrac{461}{56} = \dfrac{1}{2}b + 3\dfrac{1}{8}$ $\quad\{\dfrac{143}{14}\}$

Algebra 1   Name_____

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Solve each equation.

1) $\dfrac{9}{8}v + 3\dfrac{1}{3} = \dfrac{3163}{228}$

2) $4\dfrac{1}{8}x + \dfrac{1}{5} = \dfrac{283}{40}$

3) $-\dfrac{259}{30} = 1\dfrac{2}{5}(-10 + x)$

4) $\dfrac{551}{18} = -1\dfrac{5}{6} + 5\dfrac{7}{9}v$

5) $-\dfrac{11}{10}\left(2\dfrac{1}{2} + v\right) = -\dfrac{33}{14}$

6) $\dfrac{277}{45} = -2r + 1\dfrac{8}{9}$

7) $-2\dfrac{1}{2}(n + 1) = \dfrac{1}{2}$

8) $\dfrac{1}{2}\left(v - \dfrac{5}{3}\right) = -\dfrac{7}{12}$

9) $2\dfrac{3}{8} + \dfrac{2}{7}n = \dfrac{1579}{392}$

10) $-\dfrac{161}{8} = -1\dfrac{1}{8}\left(3\dfrac{8}{9} + v\right)$

11) $\dfrac{9}{8} - x = -\dfrac{5}{24}$

12) $-\dfrac{119}{16} = \dfrac{1}{2}\left(p + \dfrac{9}{8}\right)$

13) $\dfrac{47}{2} = 4\dfrac{1}{3}v - 2\dfrac{1}{2}$

14) $\dfrac{43}{15} = 2\dfrac{1}{3}\left(x - \dfrac{1}{5}\right)$

15) $\dfrac{251}{100} = \dfrac{3}{5}\left(r - 3\dfrac{9}{10}\right)$

16) $-(v + 2) = -\dfrac{19}{5}$

17) $-2\dfrac{5}{6}n + \dfrac{8}{5} = -\dfrac{37}{30}$

18) $-\dfrac{335}{12} = \dfrac{5}{4} - 3\dfrac{1}{8}p$

19) $-\dfrac{37}{12} = 3\dfrac{1}{6} - 3\dfrac{1}{8}x$

20) $\dfrac{112}{15} = 3\dfrac{1}{2}(x + 2)$

21) $\dfrac{1429}{90} = \dfrac{7}{9} + \dfrac{7}{5}k$

22) $1\dfrac{7}{8} + 2\dfrac{5}{6}r = \dfrac{1187}{216}$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation.

1) $\dfrac{9}{8}v + 3\dfrac{1}{3} = \dfrac{3163}{228}$ $\left\{\dfrac{178}{19}\right\}$

2) $4\dfrac{1}{8}x + \dfrac{1}{5} = \dfrac{283}{40}$ $\left\{\dfrac{5}{3}\right\}$

3) $-\dfrac{259}{30} = 1\dfrac{2}{5}(-10 + x)$ $\left\{\dfrac{23}{6}\right\}$

4) $\dfrac{551}{18} = -1\dfrac{5}{6} + 5\dfrac{7}{9}v$ $\left\{\dfrac{73}{13}\right\}$

5) $-\dfrac{11}{10}\left(2\dfrac{1}{2} + v\right) = -\dfrac{33}{14}$ $\left\{-\dfrac{5}{14}\right\}$

6) $\dfrac{277}{45} = -2r + 1\dfrac{8}{9}$ $\left\{-\dfrac{32}{15}\right\}$

7) $-2\dfrac{1}{2}(n + 1) = \dfrac{1}{2}$ $\left\{-\dfrac{6}{5}\right\}$

8) $\dfrac{1}{2}\left(v - \dfrac{5}{3}\right) = -\dfrac{7}{12}$ $\left\{\dfrac{1}{2}\right\}$

9) $2\dfrac{3}{8} + \dfrac{2}{7}n = \dfrac{1579}{392}$ $\left\{\dfrac{81}{14}\right\}$

10) $-\dfrac{161}{8} = -1\dfrac{1}{8}\left(3\dfrac{8}{9} + v\right)$

       $\{14\}$

11) $\dfrac{9}{8} - x = -\dfrac{5}{24}$ $\left\{\dfrac{4}{3}\right\}$

12) $-\dfrac{119}{16} = \dfrac{1}{2}\left(p + \dfrac{9}{8}\right)$

       $\{-16\}$

13) $\dfrac{47}{2} = 4\dfrac{1}{3}v - 2\dfrac{1}{2}$

       $\{6\}$

14) $\dfrac{43}{15} = 2\dfrac{1}{3}\left(x - \dfrac{1}{5}\right)$ $\left\{\dfrac{10}{7}\right\}$

15) $\dfrac{251}{100} = \dfrac{3}{5}\left(r - 3\dfrac{9}{10}\right)$ $\left\{\dfrac{97}{12}\right\}$

16) $-(v + 2) = -\dfrac{19}{5}$ $\left\{\dfrac{9}{5}\right\}$

17) $-2\dfrac{5}{6}n + \dfrac{8}{5} = -\dfrac{37}{30}$

       $\{1\}$

18) $-\dfrac{335}{12} = \dfrac{5}{4} - 3\dfrac{1}{8}p$ $\left\{\dfrac{28}{3}\right\}$

19) $-\dfrac{37}{12} = 3\dfrac{1}{6} - 3\dfrac{1}{8}x$

       $\{2\}$

20) $\dfrac{112}{15} = 3\dfrac{1}{2}(x + 2)$ $\left\{\dfrac{2}{15}\right\}$

21) $\dfrac{1429}{90} = \dfrac{7}{9} + \dfrac{7}{5}k$ $\left\{\dfrac{151}{14}\right\}$

22) $1\dfrac{7}{8} + 2\dfrac{5}{6}r = \dfrac{1187}{216}$ $\left\{\dfrac{23}{18}\right\}$

Algebra 1   Name_____

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Solve each equation.

1) $-2\dfrac{3}{4}\left(-\dfrac{5}{3}+n\right)=-\dfrac{77}{120}$

2) $2\dfrac{6}{7}+8x=\dfrac{100}{7}$

3) $-4x+1\dfrac{1}{2}=-\dfrac{11}{6}$

4) $\dfrac{3}{5}\left(\dfrac{3}{2}+p\right)=\dfrac{81}{20}$

5) $-\left(-2\dfrac{4}{7}+m\right)=\dfrac{299}{70}$

6) $\dfrac{50}{3}=-2\dfrac{1}{2}(x-6)$

7) $\dfrac{13}{90}=\dfrac{1}{3}\left(\dfrac{1}{3}+x\right)$

8) $\dfrac{5}{3}\left(x+\dfrac{4}{5}\right)=\dfrac{14}{3}$

9) $\dfrac{163}{7}=3\dfrac{3}{7}n-3\dfrac{2}{7}$

10) $-\dfrac{1657}{84}=-\dfrac{13}{7}v-1$

11) $4\dfrac{1}{3}v-\dfrac{5}{3}=-\dfrac{427}{30}$

12) $-3\left(x-3\dfrac{6}{7}\right)=\dfrac{621}{70}$

13) $-\dfrac{1379}{90}=4\dfrac{2}{5}+\dfrac{5}{3}a$

14) $\dfrac{301}{60}=\dfrac{7}{9}\left(p+2\dfrac{1}{5}\right)$

15) $\dfrac{1}{5}\left(-3\dfrac{3}{7}+m\right)=-\dfrac{23}{7}$

16) $-\dfrac{7}{4}p-1\dfrac{7}{8}=-\dfrac{229}{12}$

17) $-\dfrac{1441}{36}=1\dfrac{5}{6}\left(p-3\dfrac{5}{6}\right)$

18) $\dfrac{198}{5}=9\left(-\dfrac{3}{2}+k\right)$

19) $3\dfrac{7}{9}(p+2)=\dfrac{391}{36}$

20) $\dfrac{343}{40}=\dfrac{3}{2}\left(p+4\dfrac{1}{4}\right)$

21) $-\dfrac{181}{756}=\dfrac{1}{6}\left(\dfrac{16}{9}+p\right)$

22) $-\dfrac{79}{12}=-2r+\dfrac{5}{3}$

Algebra 1   Name_____

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Solve each equation.

1) $-2\dfrac{3}{4}\left(-\dfrac{5}{3}+n\right)=-\dfrac{77}{120}$ $\left\{\dfrac{19}{10}\right\}$

2) $2\dfrac{6}{7}+8x=\dfrac{100}{7}$ $\left\{\dfrac{10}{7}\right\}$

3) $-4x+1\dfrac{1}{2}=-\dfrac{11}{6}$ $\left\{\dfrac{5}{6}\right\}$

4) $\dfrac{3}{5}\left(\dfrac{3}{2}+p\right)=\dfrac{81}{20}$ $\left\{\dfrac{21}{4}\right\}$

5) $-\left(-2\dfrac{4}{7}+m\right)=\dfrac{299}{70}$ $\left\{-\dfrac{17}{10}\right\}$

6) $\dfrac{50}{3}=-2\dfrac{1}{2}(x-6)$ $\left\{-\dfrac{2}{3}\right\}$

7) $\dfrac{13}{90}=\dfrac{1}{3}\left(\dfrac{1}{3}+x\right)$ $\left\{\dfrac{1}{10}\right\}$

8) $\dfrac{5}{3}\left(x+\dfrac{4}{5}\right)=\dfrac{14}{3}$

$\{2\}$

9) $\dfrac{163}{7}=3\dfrac{3}{7}n-3\dfrac{2}{7}$ $\left\{\dfrac{31}{4}\right\}$

10) $-\dfrac{1657}{84}=-\dfrac{13}{7}v-1$ $\left\{\dfrac{121}{12}\right\}$

11) $4\dfrac{1}{3}v-\dfrac{5}{3}=-\dfrac{427}{30}$ $\left\{-\dfrac{29}{10}\right\}$

12) $-3\left(x-3\dfrac{6}{7}\right)=\dfrac{621}{70}$ $\left\{\dfrac{9}{10}\right\}$

13) $-\dfrac{1379}{90}=4\dfrac{2}{5}+\dfrac{5}{3}a$ $\left\{-\dfrac{71}{6}\right\}$

14) $\dfrac{301}{60}=\dfrac{7}{9}\left(p+2\dfrac{1}{5}\right)$ $\left\{\dfrac{17}{4}\right\}$

15) $\dfrac{1}{5}\left(-3\dfrac{3}{7}+m\right)=-\dfrac{23}{7}$

$\{-13\}$

16) $-\dfrac{7}{4}p-1\dfrac{7}{8}=-\dfrac{229}{12}$ $\left\{\dfrac{59}{6}\right\}$

17) $-\dfrac{1441}{36}=1\dfrac{5}{6}\left(p-3\dfrac{5}{6}\right)$

$\{-18\}$

18) $\dfrac{198}{5}=9\left(-\dfrac{3}{2}+k\right)$ $\left\{\dfrac{59}{10}\right\}$

19) $3\dfrac{7}{9}(p+2)=\dfrac{391}{36}$ $\left\{\dfrac{7}{8}\right\}$

20) $\dfrac{343}{40}=\dfrac{3}{2}\left(p+4\dfrac{1}{4}\right)$ $\left\{\dfrac{22}{15}\right\}$

21) $-\dfrac{181}{756}=\dfrac{1}{6}\left(\dfrac{16}{9}+p\right)$ $\left\{-\dfrac{45}{14}\right\}$

22) $-\dfrac{79}{12}=-2r+\dfrac{5}{3}$ $\left\{\dfrac{33}{8}\right\}$