Algebra 1   Name_____

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Solve each equation.

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

2) $-\dfrac{143}{16} = \dfrac{3}{2}\left(b + \dfrac{7}{4}\right) + \dfrac{25}{8}b$

3) $-\dfrac{11}{16} = \dfrac{3}{4} - \dfrac{1}{2}\left(n + \dfrac{9}{8}\right)$

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

5) $\dfrac{11687}{210} = \dfrac{31}{7}\left(\dfrac{7}{5}a + \dfrac{25}{6}\right)$

6) $-\dfrac{25}{84} = \dfrac{1}{5}\left(\dfrac{1}{2}b + \dfrac{3}{7}\right)$

7) $-\dfrac{5}{3}x + \dfrac{13}{8}\left(-\dfrac{2}{3}x + \dfrac{11}{5}\right) = \dfrac{11}{80}$

8) $-\dfrac{221}{72} = -\dfrac{5}{3}\left(n + \dfrac{7}{4}\right) + \dfrac{7}{4}n$

9) $-\dfrac{121}{28} = \dfrac{11}{4}\left(-\dfrac{3}{2}r - \dfrac{1}{2}\right)$

10) $2\left(x + \dfrac{25}{6}\right) = \dfrac{55}{12}$

11) $\dfrac{22}{5}\left(\dfrac{7}{2}r + \dfrac{31}{8}\right) = \dfrac{957}{20}$

12) $-\dfrac{15}{8} = \dfrac{3}{2}\left(x + \dfrac{5}{2}\right)$

13) $1 + 2\left(\dfrac{8}{3}n + 1\right) = -\dfrac{17}{3}$

14) $\dfrac{371}{96} = -\left(\dfrac{5}{4}v - \dfrac{11}{6}\right)$

15) $-\dfrac{5}{4}\left(x + \dfrac{11}{4}\right) = -\dfrac{65}{48}$

16) $\dfrac{5}{6}\left(x + \dfrac{6}{5}\right) = -\dfrac{23}{42}$

17) $-\dfrac{19}{20} = -\dfrac{19}{5}\left(x - \dfrac{7}{4}\right)$

18) $-\dfrac{1}{10} = \dfrac{1}{5}v + \dfrac{3}{2}\left(v + \dfrac{1}{2}\right)$

19) $\dfrac{1}{2}\left(\dfrac{7}{8}r + \dfrac{1}{3}\right) = \dfrac{17}{32}$

20) $-\dfrac{227}{32} = 2\left(\dfrac{9}{8}x - 2\right)$

21) $-\dfrac{1}{90} = \dfrac{1}{6}\left(a + \dfrac{4}{3}\right)$

22) $-\dfrac{113}{42} = -2\left(\dfrac{4}{7}n + \dfrac{25}{6}\right) + \dfrac{9}{2}$

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Solve each equation.

1) $-\left(\dfrac{3}{2}n + 1\right) = \dfrac{3}{4}$ $\left\{-\dfrac{7}{6}\right\}$

2) $-\dfrac{143}{16} = \dfrac{3}{2}\left(b + \dfrac{7}{4}\right) + \dfrac{25}{8}b$ $\left\{-\dfrac{5}{2}\right\}$

3) $-\dfrac{11}{16} = \dfrac{3}{4} - \dfrac{1}{2}\left(n + \dfrac{9}{8}\right)$ $\left\{\dfrac{7}{4}\right\}$

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

$\{5\}$

5) $\dfrac{11687}{210} = \dfrac{31}{7}\left(\dfrac{7}{5}a + \dfrac{25}{6}\right)$

$\{6\}$

6) $-\dfrac{25}{84} = \dfrac{1}{5}\left(\dfrac{1}{2}b + \dfrac{3}{7}\right)$ $\left\{-\dfrac{23}{6}\right\}$

7) $-\dfrac{5}{3}x + \dfrac{13}{8}\left(-\dfrac{2}{3}x + \dfrac{11}{5}\right) = \dfrac{11}{80}$ $\left\{\dfrac{5}{4}\right\}$

8) $-\dfrac{221}{72} = -\dfrac{5}{3}\left(n + \dfrac{7}{4}\right) + \dfrac{7}{4}n$ $\left\{-\dfrac{11}{6}\right\}$

9) $-\dfrac{121}{28} = \dfrac{11}{4}\left(-\dfrac{3}{2}r - \dfrac{1}{2}\right)$ $\left\{\dfrac{5}{7}\right\}$

10) $2\left(x + \dfrac{25}{6}\right) = \dfrac{55}{12}$ $\left\{-\dfrac{15}{8}\right\}$

11) $\dfrac{22}{5}\left(\dfrac{7}{2}r + \dfrac{31}{8}\right) = \dfrac{957}{20}$

$\{2\}$

12) $-\dfrac{15}{8} = \dfrac{3}{2}\left(x + \dfrac{5}{2}\right)$ $\left\{-\dfrac{15}{4}\right\}$

13) $1 + 2\left(\dfrac{8}{3}n + 1\right) = -\dfrac{17}{3}$ $\left\{-\dfrac{13}{8}\right\}$

14) $\dfrac{371}{96} = -\left(\dfrac{5}{4}v - \dfrac{11}{6}\right)$ $\left\{-\dfrac{13}{8}\right\}$

15) $-\dfrac{5}{4}\left(x + \dfrac{11}{4}\right) = -\dfrac{65}{48}$ $\left\{-\dfrac{5}{3}\right\}$

16) $\dfrac{5}{6}\left(x + \dfrac{6}{5}\right) = -\dfrac{23}{42}$ $\left\{-\dfrac{13}{7}\right\}$

17) $-\dfrac{19}{20} = -\dfrac{19}{5}\left(x - \dfrac{7}{4}\right)$

$\{2\}$

18) $-\dfrac{1}{10} = \dfrac{1}{5}v + \dfrac{3}{2}\left(v + \dfrac{1}{2}\right)$ $\left\{-\dfrac{1}{2}\right\}$

19) $\dfrac{1}{2}\left(\dfrac{7}{8}r + \dfrac{1}{3}\right) = \dfrac{17}{32}$ $\left\{\dfrac{5}{6}\right\}$

20) $-\dfrac{227}{32} = 2\left(\dfrac{9}{8}x - 2\right)$ $\left\{-\dfrac{11}{8}\right\}$

21) $-\dfrac{1}{90} = \dfrac{1}{6}\left(a + \dfrac{4}{3}\right)$ $\left\{-\dfrac{7}{5}\right\}$

22) $-\dfrac{113}{42} = -2\left(\dfrac{4}{7}n + \dfrac{25}{6}\right) + \dfrac{9}{2}$

$\{-1\}$

Algebra 1

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Solve each equation.

1) $-2\left(\dfrac{5}{3}k + \dfrac{21}{8}\right) = -\dfrac{29}{36}$

2) $-2\left(\dfrac{9}{4}v + \dfrac{35}{8}\right) = -\dfrac{59}{4}$

3) $\dfrac{4061}{72} = -\dfrac{31}{8}\left(\dfrac{14}{3}x + 1\right)$

4) $3\left(x + \dfrac{1}{2}\right) + \dfrac{30}{7} = -\dfrac{3}{14}$

5) $\dfrac{39}{28} = \dfrac{3}{2}\left(x + \dfrac{3}{2}\right)$

6) $\dfrac{6}{7}\left(x + \dfrac{9}{4}\right) = \dfrac{24}{7}$

7) $\dfrac{117}{4} = \dfrac{9}{2}\left(n + \dfrac{5}{2}\right)$

8) $\dfrac{1}{3}\left(k + \dfrac{5}{6}\right) = -\dfrac{43}{126}$

9) $-\dfrac{7}{4}\left(-2m + \dfrac{5}{2}\right) = -\dfrac{511}{40}$

10) $-2\left(\dfrac{1}{3}p - \dfrac{5}{3}\right) = \dfrac{38}{7}$

11) $-\dfrac{262}{63} = \dfrac{12}{7}\left(4x + \dfrac{1}{2}\right) + \dfrac{2}{3}x$

12) $-\dfrac{8}{5}\left(\dfrac{14}{3}b - 4\right) = \dfrac{4}{5}$

13) $-\dfrac{7}{4}\left(-\dfrac{15}{4}n - \dfrac{5}{4}\right) - \dfrac{5}{3}n = -\dfrac{565}{64}$

14) $-\dfrac{11}{3}\left(\dfrac{3}{2}x - \dfrac{7}{2}\right) = 11$

15) $\dfrac{26}{9} = -2\left(-\dfrac{1}{3}p + 1\right) + 3p$

16) $\dfrac{5011}{504} = \dfrac{37}{8} + \dfrac{5}{3}\left(-\dfrac{16}{7}n + 7\right)$

17) $\dfrac{600}{49} = \dfrac{25}{7}\left(\dfrac{6}{7}b + 1\right)$

18) $-\dfrac{203}{20} = \dfrac{7}{2}\left(k - \dfrac{3}{2}\right)$

19) $-\dfrac{127}{240} = \dfrac{4}{5}\left(-\dfrac{9}{8}x + \dfrac{7}{6}\right)$

20) $-\dfrac{53}{30} = v - \dfrac{1}{3}\left(\dfrac{1}{8}v - \dfrac{11}{4}\right)$

21) $5\left(\dfrac{1}{8}x + 1\right) = \dfrac{105}{32}$

22) $\dfrac{47}{12} = 6 - \dfrac{15}{7}\left(-\dfrac{1}{6}x + \dfrac{5}{4}\right)$

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Solve each equation.

1) $-2\left(\dfrac{5}{3}k + \dfrac{21}{8}\right) = -\dfrac{29}{36}$ $\left\{-\dfrac{4}{3}\right\}$

2) $-2\left(\dfrac{9}{4}v + \dfrac{35}{8}\right) = -\dfrac{59}{4}$ $\left\{\dfrac{4}{3}\right\}$

3) $\dfrac{4061}{72} = -\dfrac{31}{8}\left(\dfrac{14}{3}x + 1\right)$ $\left\{-\dfrac{10}{3}\right\}$

4) $3\left(x + \dfrac{1}{2}\right) + \dfrac{30}{7} = -\dfrac{3}{14}$

$\{-2\}$

5) $\dfrac{39}{28} = \dfrac{3}{2}\left(x + \dfrac{3}{2}\right)$ $\left\{-\dfrac{4}{7}\right\}$

6) $\dfrac{6}{7}\left(x + \dfrac{9}{4}\right) = \dfrac{24}{7}$ $\left\{\dfrac{7}{4}\right\}$

7) $\dfrac{117}{4} = \dfrac{9}{2}\left(n + \dfrac{5}{2}\right)$

$\{4\}$

8) $\dfrac{1}{3}\left(k + \dfrac{5}{6}\right) = -\dfrac{43}{126}$ $\left\{-\dfrac{13}{7}\right\}$

9) $-\dfrac{7}{4}\left(-2m + \dfrac{5}{2}\right) = -\dfrac{511}{40}$ $\left\{-\dfrac{12}{5}\right\}$

10) $-2\left(\dfrac{1}{3}p - \dfrac{5}{3}\right) = \dfrac{38}{7}$ $\left\{-\dfrac{22}{7}\right\}$

11) $-\dfrac{262}{63} = \dfrac{12}{7}\left(4x + \dfrac{1}{2}\right) + \dfrac{2}{3}x$ $\left\{-\dfrac{2}{3}\right\}$

12) $-\dfrac{8}{5}\left(\dfrac{14}{3}b - 4\right) = \dfrac{4}{5}$ $\left\{\dfrac{3}{4}\right\}$

13) $-\dfrac{7}{4}\left(-\dfrac{15}{4}n - \dfrac{5}{4}\right) - \dfrac{5}{3}n = -\dfrac{565}{64}$ $\left\{-\dfrac{9}{4}\right\}$

14) $-\dfrac{11}{3}\left(\dfrac{3}{2}x - \dfrac{7}{2}\right) = 11$ $\left\{\dfrac{1}{3}\right\}$

15) $\dfrac{26}{9} = -2\left(-\dfrac{1}{3}p + 1\right) + 3p$ $\left\{\dfrac{4}{3}\right\}$

16) $\dfrac{5011}{504} = \dfrac{37}{8} + \dfrac{5}{3}\left(-\dfrac{16}{7}n + 7\right)$ $\left\{\dfrac{5}{3}\right\}$

17) $\dfrac{600}{49} = \dfrac{25}{7}\left(\dfrac{6}{7}b + 1\right)$ $\left\{\dfrac{17}{6}\right\}$

18) $-\dfrac{203}{20} = \dfrac{7}{2}\left(k - \dfrac{3}{2}\right)$ $\left\{-\dfrac{7}{5}\right\}$

19) $-\dfrac{127}{240} = \dfrac{4}{5}\left(-\dfrac{9}{8}x + \dfrac{7}{6}\right)$ $\left\{\dfrac{13}{8}\right\}$

20) $-\dfrac{53}{30} = v - \dfrac{1}{3}\left(\dfrac{1}{8}v - \dfrac{11}{4}\right)$ $\left\{-\dfrac{14}{5}\right\}$

21) $5\left(\dfrac{1}{8}x + 1\right) = \dfrac{105}{32}$ $\left\{-\dfrac{11}{4}\right\}$

22) $\dfrac{47}{12} = 6 - \dfrac{15}{7}\left(-\dfrac{1}{6}x + \dfrac{5}{4}\right)$ $\left\{\dfrac{5}{3}\right\}$

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Solve each equation.

1) $-\dfrac{437}{72} = -\dfrac{23}{6}\left(b + \dfrac{19}{4}\right)$

2) $\dfrac{110}{9} = \dfrac{11}{3}\left(-\dfrac{7}{6}x + 1\right)$

3) $\dfrac{451}{64} = -\dfrac{33}{8}\left(\dfrac{1}{6}b - \dfrac{9}{8}\right)$

4) $\dfrac{95}{72} = \dfrac{5}{6}\left(k + \dfrac{4}{3}\right)$

5) $-\left(-\dfrac{9}{8}m - \dfrac{4}{3}\right) = \dfrac{121}{30}$

6) $\dfrac{7}{8}\left(\dfrac{3}{4}x + \dfrac{9}{2}\right) - x = \dfrac{427}{128}$

7) $\dfrac{1}{2}\left(\dfrac{1}{3}r + \dfrac{19}{6}\right) = \dfrac{59}{48}$

8) $-\dfrac{17}{5}\left(-\dfrac{7}{6}a + 1\right) = -\dfrac{221}{30}$

9) $-\dfrac{3}{2}\left(\dfrac{25}{7}n + \dfrac{2}{5}\right) = -\dfrac{417}{70}$

10) $\dfrac{109}{24} = -\dfrac{3}{2}\left(\dfrac{1}{3}r - \dfrac{15}{4}\right)$

11) $-\dfrac{26}{15} = -\dfrac{13}{7}\left(\dfrac{1}{3}b + \dfrac{3}{5}\right)$

12) $-\dfrac{71}{24} = \dfrac{7}{8}n + \dfrac{13}{8}\left(n - \dfrac{19}{6}\right)$

13) $\dfrac{4}{3}\left(-\dfrac{19}{6}n + \dfrac{25}{6}\right) + \dfrac{1}{8}n = -\dfrac{25}{84}$

14) $\dfrac{3}{2}\left(p + \dfrac{7}{8}\right) = -\dfrac{87}{80}$

15) $\dfrac{4}{5}\left(\dfrac{19}{6}p + 1\right) = \dfrac{66}{35}$

16) $\dfrac{1}{5}\left(\dfrac{1}{7}r + 1\right) - \dfrac{7}{4} = -\dfrac{19}{12}$

17) $-\dfrac{407}{100} = -\dfrac{1}{5}\left(x + \dfrac{13}{5}\right) - \dfrac{13}{4}$

18) $-\dfrac{1}{2}\left(-\dfrac{1}{2}x - 2\right) - 2x = 8$

19) $\dfrac{2}{3}\left(-\dfrac{13}{8}r + 2\right) + r = \dfrac{9}{7}$

20) $\dfrac{6467}{210} = \dfrac{29}{7}\left(\dfrac{18}{5}m + \dfrac{23}{6}\right)$

21) $-\dfrac{11}{8} - 2\left(-\dfrac{2}{7}x - 2\right) = \dfrac{601}{168}$

22) $\dfrac{3}{2}\left(-\dfrac{1}{3}n + 1\right) = \dfrac{12}{7}$

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Solve each equation.

1) $-\dfrac{437}{72} = -\dfrac{23}{6}\left(b + \dfrac{19}{4}\right)$ $\{-\dfrac{19}{6}\}$

2) $\dfrac{110}{9} = \dfrac{11}{3}\left(-\dfrac{7}{6}x + 1\right)$

   $\{-2\}$

3) $\dfrac{451}{64} = -\dfrac{33}{8}\left(\dfrac{1}{6}b - \dfrac{9}{8}\right)$ $\{-\dfrac{7}{2}\}$

4) $\dfrac{95}{72} = \dfrac{5}{6}\left(k + \dfrac{4}{3}\right)$ $\{\dfrac{1}{4}\}$

5) $-\left(-\dfrac{9}{8}m - \dfrac{4}{3}\right) = \dfrac{121}{30}$ $\{\dfrac{12}{5}\}$

6) $\dfrac{7}{8}\left(\dfrac{3}{4}x + \dfrac{9}{2}\right) - x = \dfrac{427}{128}$ $\{\dfrac{7}{4}\}$

7) $\dfrac{1}{2}\left(\dfrac{1}{3}r + \dfrac{19}{6}\right) = \dfrac{59}{48}$ $\{-\dfrac{17}{8}\}$

8) $-\dfrac{17}{5}\left(-\dfrac{7}{6}a + 1\right) = -\dfrac{221}{30}$

   $\{-1\}$

9) $-\dfrac{3}{2}\left(\dfrac{25}{7}n + \dfrac{2}{5}\right) = -\dfrac{417}{70}$

   $\{1\}$

10) $\dfrac{109}{24} = -\dfrac{3}{2}\left(\dfrac{1}{3}r - \dfrac{15}{4}\right)$ $\{\dfrac{13}{6}\}$

11) $-\dfrac{26}{15} = -\dfrac{13}{7}\left(\dfrac{1}{3}b + \dfrac{3}{5}\right)$

    $\{1\}$

12) $-\dfrac{71}{24} = \dfrac{7}{8}n + \dfrac{13}{8}\left(n - \dfrac{19}{6}\right)$ $\{\dfrac{7}{8}\}$

13) $\dfrac{4}{3}\left(-\dfrac{19}{6}n + \dfrac{25}{6}\right) + \dfrac{1}{8}n = -\dfrac{25}{84}$ $\{\dfrac{10}{7}\}$

14) $\dfrac{3}{2}\left(p + \dfrac{7}{8}\right) = -\dfrac{87}{80}$ $\{-\dfrac{8}{5}\}$

15) $\dfrac{4}{5}\left(\dfrac{19}{6}p + 1\right) = \dfrac{66}{35}$ $\{\dfrac{3}{7}\}$

16) $\dfrac{1}{5}\left(\dfrac{1}{7}r + 1\right) - \dfrac{7}{4} = -\dfrac{19}{12}$ $\{-\dfrac{7}{6}\}$

17) $-\dfrac{407}{100} = -\dfrac{1}{5}\left(x + \dfrac{13}{5}\right) - \dfrac{13}{4}$ $\{\dfrac{3}{2}\}$

18) $-\dfrac{1}{2}\left(-\dfrac{1}{2}x - 2\right) - 2x = 8$

    $\{-4\}$

19) $\dfrac{2}{3}\left(-\dfrac{13}{8}r + 2\right) + r = \dfrac{9}{7}$ $\{\dfrac{4}{7}\}$

20) $\dfrac{6467}{210} = \dfrac{29}{7}\left(\dfrac{18}{5}m + \dfrac{23}{6}\right)$

    $\{1\}$

21) $-\dfrac{11}{8} - 2\left(-\dfrac{2}{7}x - 2\right) = \dfrac{601}{168}$ $\{\dfrac{5}{3}\}$

22) $\dfrac{3}{2}\left(-\dfrac{1}{3}n + 1\right) = \dfrac{12}{7}$ $\{-\dfrac{3}{7}\}$

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Solve each equation.

1) $-1 - \dfrac{2}{7}\left(-\dfrac{21}{8}m + \dfrac{3}{2}\right) = -\dfrac{199}{56}$

2) $\dfrac{11}{4} - 2\left(\dfrac{3}{2}v + \dfrac{3}{4}\right) = -4$

3) $-\dfrac{9}{4} = -\dfrac{3}{2}\left(\dfrac{11}{4}a - 4\right)$

4) $-2\left(a + \dfrac{37}{8}\right) = -\dfrac{43}{4}$

5) $-2 - \dfrac{3}{8}\left(\dfrac{7}{3}r + 1\right) = -\dfrac{205}{48}$

6) $\dfrac{14}{3}n + \dfrac{7}{4}\left(-\dfrac{2}{5}n + 5\right) = \dfrac{287}{60}$

7) $\dfrac{2}{3}\left(\dfrac{7}{3}x + \dfrac{15}{7}\right) = \dfrac{188}{63}$

8) $\dfrac{5}{3}\left(\dfrac{15}{8}x - \dfrac{6}{5}\right) = \dfrac{193}{16}$

9) $-\dfrac{5}{18} = \dfrac{5}{6}\left(p - \dfrac{17}{6}\right) + \dfrac{1}{4}$

10) $\dfrac{339}{70} = \dfrac{3}{2}\left(x + \dfrac{19}{5}\right)$

11) $-\dfrac{7}{8}\left(n - \dfrac{4}{5}\right) = -\dfrac{21}{20}$

12) $-\dfrac{7}{8}\left(-\dfrac{15}{8}k + \dfrac{3}{2}\right) = -\dfrac{1701}{256}$

13) $\dfrac{101}{24} = -\dfrac{3}{2}\left(\dfrac{5}{3}b + \dfrac{1}{4}\right)$

14) $-\dfrac{11}{42} = \dfrac{1}{3}\left(\dfrac{3}{2}x + \dfrac{12}{7}\right)$

15) $-\dfrac{3169}{320} = -\dfrac{13}{8}\left(-\dfrac{13}{8}p + \dfrac{7}{4}\right) - \dfrac{5}{4}$

16) $\dfrac{6}{7}\left(r - \dfrac{17}{7}\right) + \dfrac{3}{4} = \dfrac{117}{28}$

17) $\dfrac{4}{7}\left(\dfrac{5}{8}k + 1\right) = -\dfrac{9}{28}$

18) $\dfrac{485}{24} = -\dfrac{15}{4}k - 8\left(k - \dfrac{15}{4}\right)$

19) $-\dfrac{259}{36} = \dfrac{17}{6}\left(a - \dfrac{10}{3}\right) + \dfrac{9}{4}$

20) $-1 + \dfrac{10}{3}\left(\dfrac{9}{2}n + \dfrac{2}{3}\right) = \dfrac{281}{9}$

21) $-\dfrac{131}{420} = -\dfrac{3}{7}\left(-\dfrac{13}{4}p + 1\right) - \dfrac{11}{6}$

22) $\dfrac{9}{2}\left(-\dfrac{4}{7}r + \dfrac{5}{6}\right) = \dfrac{15}{4}$

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Solve each equation.

1) $-1 - \dfrac{2}{7}\left(-\dfrac{21}{8}m + \dfrac{3}{2}\right) = -\dfrac{199}{56}$ $\quad\left\{-\dfrac{17}{6}\right\}$

2) $\dfrac{11}{4} - 2\left(\dfrac{3}{2}v + \dfrac{3}{4}\right) = -4$ $\quad\left\{\dfrac{7}{4}\right\}$

3) $-\dfrac{9}{4} = -\dfrac{3}{2}\left(\dfrac{11}{4}a - 4\right)$

$\{2\}$

4) $-2\left(a + \dfrac{37}{8}\right) = -\dfrac{43}{4}$ $\quad\left\{\dfrac{3}{4}\right\}$

5) $-2 - \dfrac{3}{8}\left(\dfrac{7}{3}r + 1\right) = -\dfrac{205}{48}$ $\quad\left\{\dfrac{13}{6}\right\}$

6) $\dfrac{14}{3}n + \dfrac{7}{4}\left(-\dfrac{2}{5}n + 5\right) = \dfrac{287}{60}$

$\{-1\}$

7) $\dfrac{2}{3}\left(\dfrac{7}{3}x + \dfrac{15}{7}\right) = \dfrac{188}{63}$

$\{1\}$

8) $\dfrac{5}{3}\left(\dfrac{15}{8}x - \dfrac{6}{5}\right) = \dfrac{193}{16}$ $\quad\left\{\dfrac{9}{2}\right\}$

9) $-\dfrac{5}{18} = \dfrac{5}{6}\left(p - \dfrac{17}{6}\right) + \dfrac{1}{4}$ $\quad\left\{\dfrac{11}{5}\right\}$

10) $\dfrac{339}{70} = \dfrac{3}{2}\left(x + \dfrac{19}{5}\right)$ $\quad\left\{-\dfrac{4}{7}\right\}$

11) $-\dfrac{7}{8}\left(n - \dfrac{4}{5}\right) = -\dfrac{21}{20}$

$\{2\}$

12) $-\dfrac{7}{8}\left(-\dfrac{15}{8}k + \dfrac{3}{2}\right) = -\dfrac{1701}{256}$ $\quad\left\{-\dfrac{13}{4}\right\}$

13) $\dfrac{101}{24} = -\dfrac{3}{2}\left(\dfrac{5}{3}b + \dfrac{1}{4}\right)$ $\quad\left\{-\dfrac{11}{6}\right\}$

14) $-\dfrac{11}{42} = \dfrac{1}{3}\left(\dfrac{3}{2}x + \dfrac{12}{7}\right)$ $\quad\left\{-\dfrac{5}{3}\right\}$

15) $-\dfrac{3169}{320} = -\dfrac{13}{8}\left(-\dfrac{13}{8}p + \dfrac{7}{4}\right) - \dfrac{5}{4}$ $\quad\left\{-\dfrac{11}{5}\right\}$

16) $\dfrac{6}{7}\left(r - \dfrac{17}{7}\right) + \dfrac{3}{4} = \dfrac{117}{28}$ $\quad\left\{\dfrac{45}{7}\right\}$

17) $\dfrac{4}{7}\left(\dfrac{5}{8}k + 1\right) = -\dfrac{9}{28}$ $\quad\left\{-\dfrac{5}{2}\right\}$

18) $\dfrac{485}{24} = -\dfrac{15}{4}k - 8\left(k - \dfrac{15}{4}\right)$ $\quad\left\{\dfrac{5}{6}\right\}$

19) $-\dfrac{259}{36} = \dfrac{17}{6}\left(a - \dfrac{10}{3}\right) + \dfrac{9}{4}$

$\{0\}$

20) $-1 + \dfrac{10}{3}\left(\dfrac{9}{2}n + \dfrac{2}{3}\right) = \dfrac{281}{9}$

$\{2\}$

21) $-\dfrac{131}{420} = -\dfrac{3}{7}\left(-\dfrac{13}{4}p + 1\right) - \dfrac{11}{6}$ $\quad\left\{\dfrac{7}{5}\right\}$

22) $\dfrac{9}{2}\left(-\dfrac{4}{7}r + \dfrac{5}{6}\right) = \dfrac{15}{4}$

$\{0\}$

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Solve each equation.

1) $\dfrac{10}{7}\left(b - \dfrac{59}{7}\right) = -\dfrac{1385}{147}$

2) $-\dfrac{25}{8}\left(-v - \dfrac{1}{4}\right) = -\dfrac{1075}{96}$

3) $-\dfrac{2627}{200} = \dfrac{37}{5}\left(\dfrac{27}{8}x + \dfrac{8}{5}\right)$

4) $-\dfrac{77}{4} = -2\left(\dfrac{2}{7}k + \dfrac{1}{8}\right) + 6k$

5) $\dfrac{39}{16} = \dfrac{4}{3}k + \dfrac{1}{6}\left(-k - \dfrac{23}{8}\right)$

6) $-\dfrac{751}{40} = -\dfrac{7}{5}\left(-2x + \dfrac{33}{7}\right) - \dfrac{19}{8}$

7) $-\dfrac{65}{9} = -\dfrac{5}{3}\left(-\dfrac{5}{3}x + 1\right)$

8) $\dfrac{9}{2}\left(\dfrac{25}{6}a + \dfrac{3}{8}\right) - \dfrac{1}{8}a = -\dfrac{2791}{112}$

9) $\dfrac{3}{5}\left(\dfrac{4}{3}x + \dfrac{9}{7}\right) = -\dfrac{17}{7}$

10) $\dfrac{37}{8}\left(\dfrac{5}{3}n + \dfrac{3}{5}\right) = \dfrac{333}{20}$

11) $\dfrac{17}{6}\left(\dfrac{22}{3}r + 2\right) = -\dfrac{527}{72}$

12) $3\left(\dfrac{1}{2}p + \dfrac{3}{2}\right) = 5$

13) $-\dfrac{11}{6}\left(-\dfrac{5}{2}b - \dfrac{21}{8}\right) = \dfrac{671}{48}$

14) $\dfrac{1}{2}\left(-2v - \dfrac{7}{2}\right) = -\dfrac{37}{8}$

15) $\dfrac{53}{36} = \dfrac{1}{4}\left(-\dfrac{4}{3}v + 1\right) + 2$

16) $\dfrac{1957}{120} = \dfrac{19}{4}\left(\dfrac{2}{3}b + \dfrac{1}{2}\right)$

17) $\dfrac{513}{64} = -\dfrac{27}{8}\left(x - \dfrac{3}{8}\right)$

18) $\dfrac{2}{3}\left(n - \dfrac{3}{2}\right) = -\dfrac{1}{3}$

19) $-m - \dfrac{8}{7}\left(-\dfrac{7}{4}m + 1\right) = -\dfrac{16}{7}$

20) $\dfrac{11}{3}\left(\dfrac{25}{6}x - 1\right) = -\dfrac{407}{36}$

21) $-7 = -\dfrac{8}{3}\left(v + \dfrac{29}{8}\right)$

22) $\dfrac{1989}{112} = -\dfrac{1}{2}x + \dfrac{7}{2}\left(-\dfrac{15}{8}x + \dfrac{3}{4}\right)$

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Solve each equation.

1) $\dfrac{10}{7}\left(b-\dfrac{59}{7}\right)=-\dfrac{1385}{147}$　$\left\{\dfrac{11}{6}\right\}$

2) $-\dfrac{25}{8}\left(-v-\dfrac{1}{4}\right)=-\dfrac{1075}{96}$　$\left\{-\dfrac{23}{6}\right\}$

3) $-\dfrac{2627}{200}=\dfrac{37}{5}\left(\dfrac{27}{8}x+\dfrac{8}{5}\right)$

$\{-1\}$

4) $-\dfrac{77}{4}=-2\left(\dfrac{2}{7}k+\dfrac{1}{8}\right)+6k$　$\left\{-\dfrac{7}{2}\right\}$

5) $\dfrac{39}{16}=\dfrac{4}{3}k+\dfrac{1}{6}\left(-k-\dfrac{23}{8}\right)$　$\left\{\dfrac{5}{2}\right\}$

6) $-\dfrac{751}{40}=-\dfrac{7}{5}\left(-2x+\dfrac{33}{7}\right)-\dfrac{19}{8}$　$\left\{-\dfrac{7}{2}\right\}$

7) $-\dfrac{65}{9}=-\dfrac{5}{3}\left(-\dfrac{5}{3}x+1\right)$

$\{-2\}$

8) $\dfrac{9}{2}\left(\dfrac{25}{6}a+\dfrac{3}{8}\right)-\dfrac{1}{8}a=-\dfrac{2791}{112}$　$\left\{-\dfrac{10}{7}\right\}$

9) $\dfrac{3}{5}\left(\dfrac{4}{3}x+\dfrac{9}{7}\right)=-\dfrac{17}{7}$

$\{-4\}$

10) $\dfrac{37}{8}\left(\dfrac{5}{3}n+\dfrac{3}{5}\right)=\dfrac{333}{20}$　$\left\{\dfrac{9}{5}\right\}$

11) $\dfrac{17}{6}\left(\dfrac{22}{3}r+2\right)=-\dfrac{527}{72}$　$\left\{-\dfrac{5}{8}\right\}$

12) $3\left(\dfrac{1}{2}p+\dfrac{3}{2}\right)=5$　$\left\{\dfrac{1}{3}\right\}$

13) $-\dfrac{11}{6}\left(-\dfrac{5}{2}b-\dfrac{21}{8}\right)=\dfrac{671}{48}$

$\{2\}$

14) $\dfrac{1}{2}\left(-2v-\dfrac{7}{2}\right)=-\dfrac{37}{8}$　$\left\{\dfrac{23}{8}\right\}$

15) $\dfrac{53}{36}=\dfrac{1}{4}\left(-\dfrac{4}{3}v+1\right)+2$　$\left\{\dfrac{7}{3}\right\}$

16) $\dfrac{1957}{120}=\dfrac{19}{4}\left(\dfrac{2}{3}b+\dfrac{1}{2}\right)$　$\left\{\dfrac{22}{5}\right\}$

17) $\dfrac{513}{64}=-\dfrac{27}{8}\left(x-\dfrac{3}{8}\right)$

$\{-2\}$

18) $\dfrac{2}{3}\left(n-\dfrac{3}{2}\right)=-\dfrac{1}{3}$

$\{1\}$

19) $-m-\dfrac{8}{7}\left(-\dfrac{7}{4}m+1\right)=-\dfrac{16}{7}$　$\left\{-\dfrac{8}{7}\right\}$

20) $\dfrac{11}{3}\left(\dfrac{25}{6}x-1\right)=-\dfrac{407}{36}$　$\left\{-\dfrac{1}{2}\right\}$

21) $-7=-\dfrac{8}{3}\left(v+\dfrac{29}{8}\right)$

$\{-1\}$

22) $\dfrac{1989}{112}=-\dfrac{1}{2}x+\dfrac{7}{2}\left(-\dfrac{15}{8}x+\dfrac{3}{4}\right)$　$\left\{-\dfrac{15}{7}\right\}$

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Solve each equation.

1) $-\dfrac{58}{21} = -\dfrac{5}{3}\left(x - \dfrac{1}{5}\right)$

2) $-\dfrac{25}{3} = -\dfrac{4}{3}\left(m + \dfrac{34}{5}\right) + \dfrac{3}{5}m$

3) $\dfrac{23}{8} = -\dfrac{19}{8} + \dfrac{9}{5}\left(-2r - \dfrac{7}{4}\right)$

4) $-\dfrac{4}{3}\left(\dfrac{1}{4}n - 1\right) = \dfrac{4}{3}$

5) $\dfrac{4763}{3528} = \dfrac{4}{7}\left(\dfrac{1}{3}b + \dfrac{3}{7}\right) + \dfrac{25}{8}b$

6) $\dfrac{877}{1050} = \dfrac{1}{6} - \dfrac{9}{7}\left(\dfrac{19}{5}x + 1\right)$

7) $-\dfrac{71}{20} = \dfrac{1}{2}\left(\dfrac{18}{5}p + 1\right)$

8) $\dfrac{4}{3}\left(\dfrac{7}{6}r + \dfrac{5}{3}\right) = -\dfrac{38}{27}$

9) $\dfrac{15}{7}\left(\dfrac{5}{3}k + 1\right) = \dfrac{145}{21}$

10) $-\dfrac{147}{40} = \dfrac{21}{5}\left(b - \dfrac{9}{8}\right)$

11) $\dfrac{16}{7}\left(-\dfrac{4}{3}p + 2\right) = \dfrac{928}{63}$

12) $\dfrac{67}{6} = \dfrac{11}{6} + \dfrac{5}{3}\left(\dfrac{11}{4}n + \dfrac{7}{4}\right)$

13) $\dfrac{9}{20} = -\dfrac{3}{2} - 6\left(n + \dfrac{14}{5}\right)$

14) $\dfrac{19}{7}\left(n - \dfrac{29}{8}\right) = -\dfrac{4427}{280}$

15) $-\dfrac{9}{8}\left(-\dfrac{13}{8}n - \dfrac{5}{6}\right) = \dfrac{21}{64}$

16) $\dfrac{629}{168} = \dfrac{17}{6}\left(-\dfrac{3}{7}a + \dfrac{7}{4}\right)$

17) $-\dfrac{3}{2}\left(\dfrac{1}{2}n - \dfrac{1}{2}\right) + 7n = -\dfrac{147}{4}$

18) $-\dfrac{18}{35} = 2\left(\dfrac{3}{7}n + \dfrac{3}{5}\right)$

19) $\dfrac{257}{30} = -\dfrac{19}{6}\left(\dfrac{6}{5}m - \dfrac{7}{5}\right) - \dfrac{1}{3}m$

20) $\dfrac{485}{168} = \dfrac{5}{6}\left(\dfrac{23}{7}n + 1\right)$

21) $-\dfrac{38}{7} = -2 + \dfrac{3}{2}\left(\dfrac{3}{2}n + \dfrac{1}{2}\right)$

22) $-\dfrac{10}{7}\left(\dfrac{24}{5}k + \dfrac{4}{3}\right) = \dfrac{20}{3}$

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Solve each equation.

1) $-\dfrac{58}{21} = -\dfrac{5}{3}\left(x - \dfrac{1}{5}\right)$ $\left\{\dfrac{13}{7}\right\}$

2) $-\dfrac{25}{3} = -\dfrac{4}{3}\left(m + \dfrac{34}{5}\right) + \dfrac{3}{5}m$

$\{-1\}$

3) $\dfrac{23}{8} = -\dfrac{19}{8} + \dfrac{9}{5}\left(-2r - \dfrac{7}{4}\right)$ $\left\{-\dfrac{7}{3}\right\}$

4) $-\dfrac{4}{3}\left(\dfrac{1}{4}n - 1\right) = \dfrac{4}{3}$

$\{0\}$

5) $\dfrac{4763}{3528} = \dfrac{4}{7}\left(\dfrac{1}{3}b + \dfrac{3}{7}\right) + \dfrac{25}{8}b$ $\left\{\dfrac{1}{3}\right\}$

6) $\dfrac{877}{1050} = \dfrac{1}{6} - \dfrac{9}{7}\left(\dfrac{19}{5}x + 1\right)$ $\left\{-\dfrac{2}{5}\right\}$

7) $-\dfrac{71}{20} = \dfrac{1}{2}\left(\dfrac{18}{5}p + 1\right)$ $\left\{-\dfrac{9}{4}\right\}$

8) $\dfrac{4}{3}\left(\dfrac{7}{6}r + \dfrac{5}{3}\right) = -\dfrac{38}{27}$ $\left\{-\dfrac{7}{3}\right\}$

9) $\dfrac{15}{7}\left(\dfrac{5}{3}k + 1\right) = \dfrac{145}{21}$ $\left\{\dfrac{4}{3}\right\}$

10) $-\dfrac{147}{40} = \dfrac{21}{5}\left(b - \dfrac{9}{8}\right)$ $\left\{\dfrac{1}{4}\right\}$

11) $\dfrac{16}{7}\left(-\dfrac{4}{3}p + 2\right) = \dfrac{928}{63}$ $\left\{-\dfrac{10}{3}\right\}$

12) $\dfrac{67}{6} = \dfrac{11}{6} + \dfrac{5}{3}\left(\dfrac{11}{4}n + \dfrac{7}{4}\right)$ $\left\{\dfrac{7}{5}\right\}$

13) $\dfrac{9}{20} = -\dfrac{3}{2} - 6\left(n + \dfrac{14}{5}\right)$ $\left\{-\dfrac{25}{8}\right\}$

14) $\dfrac{19}{7}\left(n - \dfrac{29}{8}\right) = -\dfrac{4427}{280}$ $\left\{-\dfrac{11}{5}\right\}$

15) $-\dfrac{9}{8}\left(-\dfrac{13}{8}n - \dfrac{5}{6}\right) = \dfrac{21}{64}$ $\left\{-\dfrac{1}{3}\right\}$

16) $\dfrac{629}{168} = \dfrac{17}{6}\left(-\dfrac{3}{7}a + \dfrac{7}{4}\right)$

$\{1\}$

17) $-\dfrac{3}{2}\left(\dfrac{1}{2}n - \dfrac{1}{2}\right) + 7n = -\dfrac{147}{4}$

$\{-6\}$

18) $-\dfrac{18}{35} = 2\left(\dfrac{3}{7}n + \dfrac{3}{5}\right)$

$\{-2\}$

19) $\dfrac{257}{30} = -\dfrac{19}{6}\left(\dfrac{6}{5}m - \dfrac{7}{5}\right) - \dfrac{1}{3}m$

$\{-1\}$

20) $\dfrac{485}{168} = \dfrac{5}{6}\left(\dfrac{23}{7}n + 1\right)$ $\left\{\dfrac{3}{4}\right\}$

21) $-\dfrac{38}{7} = -2 + \dfrac{3}{2}\left(\dfrac{3}{2}n + \dfrac{1}{2}\right)$ $\left\{-\dfrac{13}{7}\right\}$

22) $-\dfrac{10}{7}\left(\dfrac{24}{5}k + \dfrac{4}{3}\right) = \dfrac{20}{3}$ $\left\{-\dfrac{5}{4}\right\}$

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Solve each equation.

1) $\dfrac{5965}{2688} = -\dfrac{9}{8}\left(\dfrac{3}{2}x - \dfrac{10}{7}\right) + \dfrac{5}{3}$

2) $-\dfrac{247}{49} = -\dfrac{23}{6}x + \dfrac{20}{7}\left(x - \dfrac{5}{3}\right)$

3) $7x - \dfrac{9}{8}\left(\dfrac{5}{4}x + \dfrac{3}{5}\right) = \dfrac{14567}{960}$

4) $-\dfrac{24}{7}p + \dfrac{34}{7}\left(\dfrac{11}{3}p - \dfrac{5}{2}\right) = -\dfrac{859}{21}$

5) $-\dfrac{51}{56} = -\dfrac{3}{2}\left(\dfrac{3}{2}n + \dfrac{5}{7}\right) + \dfrac{17}{8}n$

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

7) $\dfrac{3}{8}\left(\dfrac{1}{3}x + \dfrac{8}{7}\right) = \dfrac{25}{56}$

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

9) $\dfrac{146}{3} = 8\left(\dfrac{3}{2}n + \dfrac{23}{6}\right)$

10) $-\dfrac{329}{48} = -7 - \dfrac{7}{4}\left(\dfrac{10}{3}v + \dfrac{9}{2}\right)$

11) $-2k - \dfrac{13}{4}\left(-\dfrac{23}{8}k + 1\right) = -\dfrac{913}{64}$

12) $v + \dfrac{7}{4}\left(-\dfrac{7}{2}v + \dfrac{3}{2}\right) = \dfrac{23}{40}$

13) $-\dfrac{143}{72} = -\dfrac{13}{6}\left(x + \dfrac{9}{4}\right)$

14) $-\dfrac{10925}{192} = -\dfrac{19}{8}\left(\dfrac{19}{4}b + 1\right)$

15) $-\dfrac{1}{2}\left(v + \dfrac{3}{4}\right) = -\dfrac{7}{40}$

16) $-\dfrac{49}{24} = -\dfrac{7}{5}\left(-\dfrac{9}{4}a + \dfrac{1}{3}\right)$

17) $\dfrac{10}{7}x + \dfrac{1}{2}\left(x - \dfrac{5}{3}\right) = \dfrac{227}{84}$

18) $\dfrac{1}{7}\left(6x + \dfrac{12}{5}\right) = \dfrac{6}{5}$

19) $-4\left(-\dfrac{7}{2}x + \dfrac{5}{4}\right) = \dfrac{169}{4}$

20) $-\dfrac{9}{5}\left(r + \dfrac{1}{6}\right) = -\dfrac{147}{40}$

21) $\dfrac{1}{6}\left(-\dfrac{7}{4}b + 1\right) = -\dfrac{157}{192}$

22) $\dfrac{7}{4}\left(x - \dfrac{1}{5}\right) = -\dfrac{7}{20}$

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Solve each equation.

1) $\dfrac{5965}{2688} = -\dfrac{9}{8}\left(\dfrac{3}{2}x - \dfrac{10}{7}\right) + \dfrac{5}{3}$ $\left\{\dfrac{5}{8}\right\}$

2) $-\dfrac{247}{49} = -\dfrac{23}{6}x + \dfrac{20}{7}\left(x - \dfrac{5}{3}\right)$ $\left\{\dfrac{2}{7}\right\}$

3) $7x - \dfrac{9}{8}\left(\dfrac{5}{4}x + \dfrac{3}{5}\right) = \dfrac{14567}{960}$ $\left\{\dfrac{17}{6}\right\}$

4) $-\dfrac{24}{7}p + \dfrac{34}{7}\left(\dfrac{11}{3}p - \dfrac{5}{2}\right) = -\dfrac{859}{21}$

$\{-2\}$

5) $-\dfrac{51}{56} = -\dfrac{3}{2}\left(\dfrac{3}{2}n + \dfrac{5}{7}\right) + \dfrac{17}{8}n$ $\left\{-\dfrac{9}{7}\right\}$

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

$\{1\}$

7) $\dfrac{3}{8}\left(\dfrac{1}{3}x + \dfrac{8}{7}\right) = \dfrac{25}{56}$ $\left\{\dfrac{1}{7}\right\}$

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

$\{-1\}$

9) $\dfrac{146}{3} = 8\left(\dfrac{3}{2}n + \dfrac{23}{6}\right)$ $\left\{\dfrac{3}{2}\right\}$

10) $-\dfrac{329}{48} = -7 - \dfrac{7}{4}\left(\dfrac{10}{3}v + \dfrac{9}{2}\right)$ $\left\{-\dfrac{11}{8}\right\}$

11) $-2k - \dfrac{13}{4}\left(-\dfrac{23}{8}k + 1\right) = -\dfrac{913}{64}$ $\left\{-\dfrac{3}{2}\right\}$

12) $v + \dfrac{7}{4}\left(-\dfrac{7}{2}v + \dfrac{3}{2}\right) = \dfrac{23}{40}$ $\left\{\dfrac{2}{5}\right\}$

13) $-\dfrac{143}{72} = -\dfrac{13}{6}\left(x + \dfrac{9}{4}\right)$ $\left\{-\dfrac{4}{3}\right\}$

14) $-\dfrac{10925}{192} = -\dfrac{19}{8}\left(\dfrac{19}{4}b + 1\right)$ $\left\{\dfrac{29}{6}\right\}$

15) $-\dfrac{1}{2}\left(v + \dfrac{3}{4}\right) = -\dfrac{7}{40}$ $\left\{-\dfrac{2}{5}\right\}$

16) $-\dfrac{49}{24} = -\dfrac{7}{5}\left(-\dfrac{9}{4}a + \dfrac{1}{3}\right)$ $\left\{-\dfrac{1}{2}\right\}$

17) $\dfrac{10}{7}x + \dfrac{1}{2}\left(x - \dfrac{5}{3}\right) = \dfrac{227}{84}$ $\left\{\dfrac{11}{6}\right\}$

18) $\dfrac{1}{7}\left(6x + \dfrac{12}{5}\right) = \dfrac{6}{5}$

$\{1\}$

19) $-4\left(-\dfrac{7}{2}x + \dfrac{5}{4}\right) = \dfrac{169}{4}$ $\left\{\dfrac{27}{8}\right\}$

20) $-\dfrac{9}{5}\left(r + \dfrac{1}{6}\right) = -\dfrac{147}{40}$ $\left\{\dfrac{15}{8}\right\}$

21) $\dfrac{1}{6}\left(-\dfrac{7}{4}b + 1\right) = -\dfrac{157}{192}$ $\left\{\dfrac{27}{8}\right\}$

22) $\dfrac{7}{4}\left(x - \dfrac{1}{5}\right) = -\dfrac{7}{20}$

$\{0\}$

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Solve each equation.

1) $\dfrac{13}{8}\left(\dfrac{12}{7}x - \dfrac{13}{8}\right) - \dfrac{12}{7} = -\dfrac{47353}{3136}$

2) $\dfrac{15}{16} = -\dfrac{5}{4}\left(\dfrac{10}{3}n + \dfrac{23}{6}\right)$

3) $-\dfrac{11}{8}\left(n + \dfrac{3}{2}\right) = 0$

4) $-\dfrac{9}{7} - \dfrac{2}{7}\left(\dfrac{3}{2}n + \dfrac{3}{4}\right) = -\dfrac{207}{98}$

5) $-\dfrac{4}{3}\left(2a - \dfrac{3}{5}\right) = \dfrac{92}{15}$

6) $\dfrac{43}{40} = \dfrac{15}{8} + \dfrac{1}{4}\left(-\dfrac{1}{2}r - \dfrac{5}{2}\right)$

7) $-\dfrac{598}{225} = -\dfrac{13}{5}\left(\dfrac{2}{3}x - \dfrac{11}{5}\right)$

8) $\dfrac{845}{56} = 5\left(r + \dfrac{15}{8}\right)$

9) $\dfrac{517}{24} = \dfrac{11}{3}\left(\dfrac{7}{6}m + \dfrac{33}{8}\right)$

10) $-\left(\dfrac{7}{8}b + 1\right) + \dfrac{3}{4}b = -\dfrac{3}{4}$

11) $\dfrac{585}{28} = \dfrac{30}{7}\left(8x - \dfrac{25}{8}\right)$

12) $\dfrac{139}{24} = \dfrac{5}{3} + \dfrac{6}{5}\left(-\dfrac{13}{8}a + 1\right)$

13) $-\dfrac{7}{6}\left(\dfrac{18}{7}x + \dfrac{29}{6}\right) = \dfrac{631}{252}$

14) $-\dfrac{19}{6} = \dfrac{19}{4}\left(v - \dfrac{5}{3}\right)$

15) $\dfrac{85}{8} = -\dfrac{3}{2}\left(\dfrac{11}{3}n + \dfrac{1}{4}\right)$

16) $\dfrac{463}{224} = -\dfrac{12}{7} - \dfrac{11}{4}\left(\dfrac{19}{7}n - \dfrac{11}{8}\right)$

17) $-\dfrac{48}{49} = -\dfrac{8}{7}\left(\dfrac{1}{2}k + \dfrac{13}{7}\right)$

18) $\dfrac{13}{6}\left(b - \dfrac{5}{4}\right) = \dfrac{13}{12}$

19) $-\dfrac{9}{7}\left(p + \dfrac{7}{5}\right) + \dfrac{3}{2}p = -\dfrac{429}{280}$

20) $\dfrac{3}{2}\left(-\dfrac{19}{6}p - 2\right) = \dfrac{7}{4}$

21) $\dfrac{3}{2}\left(-\dfrac{11}{4}n + 1\right) - \dfrac{9}{4} = \dfrac{27}{8}$

22) $-\dfrac{4}{3}\left(\dfrac{1}{3}n + 1\right) = -\dfrac{28}{45}$

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Solve each equation.

1) $\dfrac{13}{8}\left(\dfrac{12}{7}x - \dfrac{13}{8}\right) - \dfrac{12}{7} = -\dfrac{47353}{3136}$ $\left\{-\dfrac{27}{7}\right\}$

2) $\dfrac{15}{16} = -\dfrac{5}{4}\left(\dfrac{10}{3}n + \dfrac{23}{6}\right)$ $\left\{-\dfrac{11}{8}\right\}$

3) $-\dfrac{11}{8}\left(n + \dfrac{3}{2}\right) = 0$ $\left\{-\dfrac{3}{2}\right\}$

4) $-\dfrac{9}{7} - \dfrac{2}{7}\left(\dfrac{3}{2}n + \dfrac{3}{4}\right) = -\dfrac{207}{98}$ $\left\{\dfrac{10}{7}\right\}$

5) $-\dfrac{4}{3}\left(2a - \dfrac{3}{5}\right) = \dfrac{92}{15}$

$\{-2\}$

6) $\dfrac{43}{40} = \dfrac{15}{8} + \dfrac{1}{4}\left(-\dfrac{1}{2}r - \dfrac{5}{2}\right)$ $\left\{\dfrac{7}{5}\right\}$

7) $-\dfrac{598}{225} = -\dfrac{13}{5}\left(\dfrac{2}{3}x - \dfrac{11}{5}\right)$ $\left\{\dfrac{29}{6}\right\}$

8) $\dfrac{845}{56} = 5\left(r + \dfrac{15}{8}\right)$ $\left\{\dfrac{8}{7}\right\}$

9) $\dfrac{517}{24} = \dfrac{11}{3}\left(\dfrac{7}{6}m + \dfrac{33}{8}\right)$ $\left\{\dfrac{3}{2}\right\}$

10) $-\left(\dfrac{7}{8}b + 1\right) + \dfrac{3}{4}b = -\dfrac{3}{4}$

$\{-2\}$

11) $\dfrac{585}{28} = \dfrac{30}{7}\left(8x - \dfrac{25}{8}\right)$

$\{1\}$

12) $\dfrac{139}{24} = \dfrac{5}{3} + \dfrac{6}{5}\left(-\dfrac{13}{8}a + 1\right)$ $\left\{-\dfrac{3}{2}\right\}$

13) $-\dfrac{7}{6}\left(\dfrac{18}{7}x + \dfrac{29}{6}\right) = \dfrac{631}{252}$ $\left\{-\dfrac{19}{7}\right\}$

14) $-\dfrac{19}{6} = \dfrac{19}{4}\left(v - \dfrac{5}{3}\right)$

$\{1\}$

15) $\dfrac{85}{8} = -\dfrac{3}{2}\left(\dfrac{11}{3}n + \dfrac{1}{4}\right)$

$\{-2\}$

16) $\dfrac{463}{224} = -\dfrac{12}{7} - \dfrac{11}{4}\left(\dfrac{19}{7}n - \dfrac{11}{8}\right)$

$\{0\}$

17) $-\dfrac{48}{49} = -\dfrac{8}{7}\left(\dfrac{1}{2}k + \dfrac{13}{7}\right)$

$\{-2\}$

18) $\dfrac{13}{6}\left(b - \dfrac{5}{4}\right) = \dfrac{13}{12}$ $\left\{\dfrac{7}{4}\right\}$

19) $-\dfrac{9}{7}\left(p + \dfrac{7}{5}\right) + \dfrac{3}{2}p = -\dfrac{429}{280}$ $\left\{\dfrac{5}{4}\right\}$

20) $\dfrac{3}{2}\left(-\dfrac{19}{6}p - 2\right) = \dfrac{7}{4}$

$\{-1\}$

21) $\dfrac{3}{2}\left(-\dfrac{11}{4}n + 1\right) - \dfrac{9}{4} = \dfrac{27}{8}$

$\{-1\}$

22) $-\dfrac{4}{3}\left(\dfrac{1}{3}n + 1\right) = -\dfrac{28}{45}$ $\left\{-\dfrac{8}{5}\right\}$

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Solve each equation.

1) $\dfrac{673}{336} = \dfrac{1}{4} + \dfrac{19}{6}\left(\dfrac{5}{7}r + 1\right)$

2) $-\dfrac{81}{40} = \dfrac{7}{4} + \dfrac{1}{2}\left(\dfrac{23}{5}x + \dfrac{1}{2}\right)$

3) $\dfrac{1}{5}\left(-\dfrac{13}{6}k + 1\right) = \dfrac{1}{5}$

4) $-7\left(-\dfrac{4}{5}r + 1\right) + \dfrac{8}{7}r = -\dfrac{1933}{175}$

5) $-\dfrac{29}{16} = -\dfrac{3}{2}\left(k + \dfrac{11}{8}\right) + 2k$

6) $\dfrac{701}{14} = -6\left(-\dfrac{5}{2}p - \dfrac{3}{7}\right)$

7) $-\dfrac{3947}{280} = -\dfrac{9}{2}\left(\dfrac{8}{7}x + \dfrac{3}{2}\right) - \dfrac{1}{5}x$

8) $-\dfrac{1}{5}\left(\dfrac{1}{2}r - \dfrac{4}{5}\right) = \dfrac{32}{75}$

9) $\dfrac{275}{216} = \dfrac{5}{6}\left(-\dfrac{17}{6}p + 2\right)$

10) $\dfrac{11}{4}\left(\dfrac{7}{5}x + \dfrac{15}{8}\right) - \dfrac{13}{7} = \dfrac{23099}{1120}$

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

12) $-\dfrac{7}{5}\left(m + \dfrac{29}{8}\right) = -\dfrac{99}{40}$

13) $-\dfrac{3}{2}\left(-\dfrac{4}{3}p + 1\right) = -\dfrac{7}{10}$

14) $\dfrac{11}{4}\left(-\dfrac{5}{4}b + 1\right) = \dfrac{77}{8}$

15) $-\dfrac{355}{42} = 2\left(\dfrac{5}{7}x - \dfrac{10}{3}\right)$

16) $-\dfrac{25}{7}\left(\dfrac{7}{3}b + \dfrac{19}{6}\right) = \dfrac{925}{42}$

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

18) $-\dfrac{8153}{1960} = -\dfrac{31}{8}\left(\dfrac{4}{7}b + \dfrac{7}{5}\right)$

19) $-\dfrac{5}{4}\left(\dfrac{25}{6}r + 1\right) = -\dfrac{355}{84}$

20) $\dfrac{19}{6}r + 2\left(\dfrac{33}{7}r + 1\right) = -\dfrac{417}{56}$

21) $\dfrac{653}{36} = \dfrac{17}{6}\left(v + \dfrac{19}{6}\right) + \dfrac{7}{4}v$

22) $\dfrac{14}{27} = -\dfrac{2}{3}\left(\dfrac{1}{6}v - 2\right) - \dfrac{2}{3}$

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Solve each equation.

1) $\dfrac{673}{336} = \dfrac{1}{4} + \dfrac{19}{6}\left(\dfrac{5}{7}r + 1\right)$ $\{-\dfrac{5}{8}\}$

2) $-\dfrac{81}{40} = \dfrac{7}{4} + \dfrac{1}{2}\left(\dfrac{23}{5}x + \dfrac{1}{2}\right)$ $\{-\dfrac{7}{4}\}$

3) $\dfrac{1}{5}\left(-\dfrac{13}{6}k + 1\right) = \dfrac{1}{5}$

$\{0\}$

4) $-7\left(-\dfrac{4}{5}r + 1\right) + \dfrac{8}{7}r = -\dfrac{1933}{175}$ $\{-\dfrac{3}{5}\}$

5) $-\dfrac{29}{16} = -\dfrac{3}{2}\left(k + \dfrac{11}{8}\right) + 2k$ $\{\dfrac{1}{2}\}$

6) $\dfrac{701}{14} = -6\left(-\dfrac{5}{2}p - \dfrac{3}{7}\right)$ $\{\dfrac{19}{6}\}$

7) $-\dfrac{3947}{280} = -\dfrac{9}{2}\left(\dfrac{8}{7}x + \dfrac{3}{2}\right) - \dfrac{1}{5}x$ $\{\dfrac{11}{8}\}$

8) $-\dfrac{1}{5}\left(\dfrac{1}{2}r - \dfrac{4}{5}\right) = \dfrac{32}{75}$ $\{-\dfrac{8}{3}\}$

9) $\dfrac{275}{216} = \dfrac{5}{6}\left(-\dfrac{17}{6}p + 2\right)$ $\{\dfrac{1}{6}\}$

10) $\dfrac{11}{4}\left(\dfrac{7}{5}x + \dfrac{15}{8}\right) - \dfrac{13}{7} = \dfrac{23099}{1120}$ $\{\dfrac{9}{2}\}$

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

12) $-\dfrac{7}{5}\left(m + \dfrac{29}{8}\right) = -\dfrac{99}{40}$ $\{-\dfrac{13}{7}\}$

13) $-\dfrac{3}{2}\left(-\dfrac{4}{3}p + 1\right) = -\dfrac{7}{10}$ $\{\dfrac{2}{5}\}$

14) $\dfrac{11}{4}\left(-\dfrac{5}{4}b + 1\right) = \dfrac{77}{8}$

$\{-2\}$

15) $-\dfrac{355}{42} = 2\left(\dfrac{5}{7}x - \dfrac{10}{3}\right)$ $\{-\dfrac{5}{4}\}$

16) $-\dfrac{25}{7}\left(\dfrac{7}{3}b + \dfrac{19}{6}\right) = \dfrac{925}{42}$

$\{-4\}$

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

$\{-1\}$

18) $-\dfrac{8153}{1960} = -\dfrac{31}{8}\left(\dfrac{4}{7}b + \dfrac{7}{5}\right)$ $\{-\dfrac{4}{7}\}$

19) $-\dfrac{5}{4}\left(\dfrac{25}{6}r + 1\right) = -\dfrac{355}{84}$ $\{\dfrac{4}{7}\}$

20) $\dfrac{19}{6}r + 2\left(\dfrac{33}{7}r + 1\right) = -\dfrac{417}{56}$ $\{-\dfrac{3}{4}\}$

21) $\dfrac{653}{36} = \dfrac{17}{6}\left(v + \dfrac{19}{6}\right) + \dfrac{7}{4}v$

$\{2\}$

22) $\dfrac{14}{27} = -\dfrac{2}{3}\left(\dfrac{1}{6}v - 2\right) - \dfrac{2}{3}$ $\{\dfrac{4}{3}\}$

Algebra 1   Name_____

Assignment   Date_____ Period_____

Solve each equation.

1) $\dfrac{9}{4}\left(n - \dfrac{7}{6}\right) - \dfrac{7}{4} = -\dfrac{143}{8}$

2) $\dfrac{35}{8}\left(\dfrac{2}{3}k + \dfrac{1}{2}\right) = -\dfrac{875}{144}$

3) $\dfrac{9}{4}\left(\dfrac{7}{2}a + \dfrac{1}{7}\right) = -\dfrac{3825}{448}$

4) $-\dfrac{3}{4}\left(-\dfrac{13}{4}x + \dfrac{31}{8}\right) = -\dfrac{93}{32}$

5) $\dfrac{5}{8} = \dfrac{13}{8}x - \dfrac{1}{4}\left(\dfrac{7}{3}x - \dfrac{5}{2}\right)$

6) $\dfrac{117}{14} = -\dfrac{26}{7}\left(p - \dfrac{1}{4}\right)$

7) $-\dfrac{1}{2}\left(k + \dfrac{29}{6}\right) = -\dfrac{37}{24}$

8) $\dfrac{17}{6}\left(-\dfrac{19}{7}k + \dfrac{11}{5}\right) = -\dfrac{6443}{210}$

9) $-\dfrac{73}{9} = \dfrac{14}{3}\left(-\dfrac{23}{6}x + 1\right)$

10) $-\dfrac{19}{96} = -\dfrac{1}{8}\left(\dfrac{3}{2}x - \dfrac{13}{6}\right)$

11) $\dfrac{1}{5}\left(\dfrac{1}{2}x - \dfrac{1}{3}\right) = -\dfrac{13}{60}$

12) $\dfrac{251}{120} = -\dfrac{2}{5}\left(x - \dfrac{8}{3}\right) + \dfrac{5}{8}$

13) $\dfrac{1}{2}\left(\dfrac{4}{3}n + \dfrac{3}{2}\right) = \dfrac{11}{36}$

14) $-\dfrac{1}{70} = -\dfrac{1}{2}\left(-2v + \dfrac{13}{5}\right)$

15) $\dfrac{92}{7} = \dfrac{3}{2}\left(\dfrac{23}{7}k - \dfrac{1}{3}\right) + \dfrac{25}{6}k$

16) $-\dfrac{7}{4}\left(\dfrac{9}{4}x - \dfrac{11}{7}\right) = -\dfrac{269}{32}$

17) $-\dfrac{227}{32} = \dfrac{7}{4}\left(\dfrac{5}{8}x - 2\right)$

18) $-\dfrac{9}{8} - \dfrac{8}{3}\left(\dfrac{1}{2}x - \dfrac{27}{7}\right) = \dfrac{1763}{168}$

19) $-8\left(-\dfrac{7}{8}x + 1\right) = -\dfrac{9}{2}$

20) $\dfrac{5}{7}\left(\dfrac{2}{3}n + \dfrac{3}{7}\right) = \dfrac{1265}{588}$

21) $\dfrac{13}{4}\left(\dfrac{13}{4}x + 1\right) = -\dfrac{247}{28}$

22) $\dfrac{124}{9} = -\dfrac{4}{3}\left(-\dfrac{8}{3}a + 1\right)$

Algebra 1

Name_____

Assignment

Date_____ Period_____

Solve each equation.

1) $\dfrac{9}{4}\left(n - \dfrac{7}{6}\right) - \dfrac{7}{4} = -\dfrac{143}{8}$

$\{-6\}$

2) $\dfrac{35}{8}\left(\dfrac{2}{3}k + \dfrac{1}{2}\right) = -\dfrac{875}{144}$ $\left\{-\dfrac{17}{6}\right\}$

3) $\dfrac{9}{4}\left(\dfrac{7}{2}a + \dfrac{1}{7}\right) = -\dfrac{3825}{448}$ $\left\{-\dfrac{9}{8}\right\}$

4) $-\dfrac{3}{4}\left(-\dfrac{13}{4}x + \dfrac{31}{8}\right) = -\dfrac{93}{32}$

$\{0\}$

5) $\dfrac{5}{8} = \dfrac{13}{8}x - \dfrac{1}{4}\left(\dfrac{7}{3}x - \dfrac{5}{2}\right)$

$\{0\}$

6) $\dfrac{117}{14} = -\dfrac{26}{7}\left(p - \dfrac{1}{4}\right)$

$\{-2\}$

7) $-\dfrac{1}{2}\left(k + \dfrac{29}{6}\right) = -\dfrac{37}{24}$ $\left\{-\dfrac{7}{4}\right\}$

8) $\dfrac{17}{6}\left(-\dfrac{19}{7}k + \dfrac{11}{5}\right) = -\dfrac{6443}{210}$ $\left\{\dfrac{24}{5}\right\}$

9) $-\dfrac{73}{9} = \dfrac{14}{3}\left(-\dfrac{23}{6}x + 1\right)$ $\left\{\dfrac{5}{7}\right\}$

10) $-\dfrac{19}{96} = -\dfrac{1}{8}\left(\dfrac{3}{2}x - \dfrac{13}{6}\right)$ $\left\{\dfrac{5}{2}\right\}$

11) $\dfrac{1}{5}\left(\dfrac{1}{2}x - \dfrac{1}{3}\right) = -\dfrac{13}{60}$ $\left\{-\dfrac{3}{2}\right\}$

12) $\dfrac{251}{120} = -\dfrac{2}{5}\left(x - \dfrac{8}{3}\right) + \dfrac{5}{8}$

$\{-1\}$

13) $\dfrac{1}{2}\left(\dfrac{4}{3}n + \dfrac{3}{2}\right) = \dfrac{11}{36}$ $\left\{-\dfrac{2}{3}\right\}$

14) $-\dfrac{1}{70} = -\dfrac{1}{2}\left(-2v + \dfrac{13}{5}\right)$ $\left\{\dfrac{9}{7}\right\}$

15) $\dfrac{92}{7} = \dfrac{3}{2}\left(\dfrac{23}{7}k - \dfrac{1}{3}\right) + \dfrac{25}{6}k$ $\left\{\dfrac{3}{2}\right\}$

16) $-\dfrac{7}{4}\left(\dfrac{9}{4}x - \dfrac{11}{7}\right) = -\dfrac{269}{32}$ $\left\{\dfrac{17}{6}\right\}$

17) $-\dfrac{227}{32} = \dfrac{7}{4}\left(\dfrac{5}{8}x - 2\right)$ $\left\{-\dfrac{23}{7}\right\}$

18) $-\dfrac{9}{8} - \dfrac{8}{3}\left(\dfrac{1}{2}x - \dfrac{27}{7}\right) = \dfrac{1763}{168}$

$\{-1\}$

19) $-8\left(-\dfrac{7}{8}x + 1\right) = -\dfrac{9}{2}$ $\left\{\dfrac{1}{2}\right\}$

20) $\dfrac{5}{7}\left(\dfrac{2}{3}n + \dfrac{3}{7}\right) = \dfrac{1265}{588}$ $\left\{\dfrac{31}{8}\right\}$

21) $\dfrac{13}{4}\left(\dfrac{13}{4}x + 1\right) = -\dfrac{247}{28}$ $\left\{-\dfrac{8}{7}\right\}$

22) $\dfrac{124}{9} = -\dfrac{4}{3}\left(-\dfrac{8}{3}a + 1\right)$ $\left\{\dfrac{17}{4}\right\}$