

① Key

②

1 → 7, 15, 20  
2 → 21, 28, 35, 38  
3 → 1, 2, 3

1 → 8, 16, 23  
2 → 20, 30, 36, 47  
3 → 4, 7, 12

### 0.3 Practice - Order of Operation

Solve.

1)  $-6 \cdot 4(-1)$

3)  $3 + (8) \div |4|$

5)  $8 \div 4 \cdot 2$

7)  $[-9 - (2 - 5)] \div (-6)$

9)  $-6 + (-3 - 3)^2 \div |3|$

11)  $4 - 2|3^2 - 16|$

13)  $[-1 - (-5)]|3 + 2|$

15)  $\frac{2+4|7+2^2|}{4 \cdot 2+5 \cdot 3}$

17)  $[6 \cdot 2 + 2 - (-6)](-5 + \left| \frac{-18}{6} \right|)$

19)  $\frac{-13-2}{2 - (-1)^3 + (-6) - [-1 - (-3)]}$

21)  $6 \cdot \frac{-8-4+(-4) - |-4 - (-3)|}{(4^2+3^2) \div 5}$

23)  $\frac{2^3+4}{-18-6+(-4) - [-5(-1)(-5)]}$

25)  $\frac{5+3^2-24+6 \cdot 2}{|5+3(2^2-5)| + |2^2-5|^2}$

2)  $(-6 \div 6)^3$

4)  $5(-5+6) \cdot 6^2$

6)  $7 - 5 + 6$

8)  $(-2 \cdot 2^3 \cdot 2) \div (-4)$

10)  $(-7 - 5) \div [-2 - 2 - (-6)]$

12)  $\frac{-10-6}{(-2)^2} - 5$

14)  $-3 - \{3 - [-3(2+4) - (-2)]\}$

16)  $-4 - [2 + 4(-6) - 4 - |2^2 - 5 \cdot 2|]$

18)  $2 \cdot (-3) + 3 - 6[-2 - (-1 - 3)]$

20)  $\frac{-5^2 + (-5)^2}{|4^2 - 2^6| - 2 \cdot 3}$

22)  $\frac{-9 \cdot 2 - (3-6)}{1 - (-2+1) - (-3)}$

24)  $\frac{18 + (-3)^2 + 4(-3) + 1 - [-10 - (-6)]}{\{[4+5] \div [4^2 - 3^2(4-3) - 8]\} + 12}$



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③

1 → 9, 17, 21  
2 → 16, 27, 40, 89  
3 → 10, 23, 21

# LINEAR EQUATIONS PRACTICE

1.  $4x = 4$
2.  $x + 6 = -7$
3.  $x - 4 = 7$
4.  $\frac{x}{3} = -9$
5.  $2x + 4 = 8$
6.  $14 = 3 + 2x$
7.  $8x - 3 = -19$
8.  $6 - x = 9$
9.  $-x = -12$
10.  $3(x - 2) = 6$
11.  $-3(2x - 8) = -12$
12.  $4(6 + 2x) = 0$
13.  $3x + 2x + 6 = -15$
14.  $4 = -2(x + 3)$
15.  $27 = 46 + 2x - x$
16.  $4x + 6 - 7x + 9 = 18$
17.  $4 + 3(x + 2) = 10$
18.  $-3 + 3x = -2(x + 1)$
19.  $9x - 6 = -3x + 30$
20.  $-(x + 2) = 2(3x - 6)$
21.  $2x + 6 = 3x + 9 - 3$
22.  $-5x + 3 = 2x + 10$
23.  $3x - 12x = 24 - 9x$
24.  $2(x + 4) = -3(x + 5)$
25.  $4(2x - 3) + 4 = 8x - 8$
26.  $6x + 11 = -(6x + 5)$
27.  $2(x + 7) = 6x + 9 - 4x$
28.  $-5(3 - 4x) = -6 + 20x - 9$
29.  $4(x - 3) - (x - 5) = 0$
30.  $-2(4 - x) = 6(x + 2) + 3x$
31.  $\frac{4}{7} = \frac{x}{21}$
32.  $\frac{x}{4} = \frac{-20}{16}$
33.  $\frac{9c}{10} = \frac{9}{5}$
34.  $\frac{1}{4} = \frac{z+1}{4}$
35.  $\frac{a}{5} = \frac{a-3}{2}$
36.  $\frac{n}{10} = 9 - \frac{n}{5}$
37.  $\frac{2}{8} + \frac{3}{4} = \frac{w}{5}$
38.  $x - \frac{3}{4} = -2x$
39.  $\frac{z}{4} - \frac{z}{6} = \frac{1}{4}$
40.  $a - \frac{a}{3} + \frac{a}{5} = 26$
41.  $\frac{12}{10} = \frac{z}{25}$
42.  $\frac{-2}{6} = \frac{3c}{9}$
43.  $\frac{x+4}{7} = \frac{3}{7}$
44.  $\frac{4x+5}{6} = \frac{7}{2}$
45.  $6 - \frac{x}{4} = \frac{x}{8}$
46.  $\frac{x}{3} - \frac{3x}{4} = \frac{1}{12}$
47.  $\frac{5}{2} - x = 3x$
48.  $\frac{3-5y}{4} = \frac{2-4y}{3}$
49.  $\frac{2x-1}{3} - \frac{3x}{4} = \frac{5}{6}$
50.  $-\frac{x}{4} = 12$
51.  $-x = -12$
52.  $-2x = -16$
53.  $2x = -14$
54.  $\frac{1}{7}x = -8$
55.  $\frac{1}{7}x = 2$
56.  $-\frac{x}{2} = 4$
57.  $-x = 26$
58.  $3x = 15$
59.  $4x = -32$
60.  $\frac{1}{3}x = 5$
61.  $\frac{1}{9}x = 5$
62.  $-\frac{5}{3}x = -15$
63.  $-\frac{6}{5}x = -30$
64.  $\frac{6}{5}x = 90$
65.  $\frac{1}{3}x = 4$
66.  $\frac{7}{6}x = 168$
67.  $\frac{1}{6}x = 2$
68.  $-\frac{9}{5}x = -45$
69.  $-\frac{4}{9}x = -36$
70.  $4x - 4 = -40$
71.  $9x - 7 = -34$
72.  $\frac{7}{8}y - 6 = 8$
73.  $10 - x = 6$
74.  $-2x - 4x = 1$
75.  $-9x - 9x = -9$
76.  $\frac{x}{3} - \frac{x}{5} = 2$
77.  $\frac{x}{7} - \frac{x}{9} = 2$
78.  $\frac{x}{3} - \frac{x}{9} = 6$
79.  $\frac{x}{8} - \frac{x}{9} = 1$
80.  $\frac{5}{9}y - 4 = 6$
81.  $x + 0.4x = 3.5$
82.  $5(x - 3) = 45$
83.  $-3(x + 7) = 9$
84.  $-4(x - 6) = 12$
85.  $8 = 2(x - 5) + 6x$
86.  $2 = 7(x + 4) + 9x$
87.  $1 = 3(x - 2) + 3 - 2x$
88.  $3 = 4(x - 2) + 5 - 3x$
89.  $3.65 - 7.4x + 1.12 = 21.76$
90.  $-8x + 3 - 2x = -6x + 3 - 4x$
91.  $10x + 3 + 10x = 13x - 3 + 7x$
92.  $6 + 3x = 5(x - 1) - 3(x - 2)$
93.  $10 - 5x = 3(x - 4) - 2(x + 7)$
94.  $9.2y - 4.3 = 50.9$
95.  $0.05z + 0.2 = 0.15z - 10.5$
96.  $0.25(60) + 0.10x = 0.15(60 + x)$
97.  $0.5(3q + 87) = 1.5q + 43.5$
98.  $0.4(y + 10) + 0.6y = 2$
99.  $21.1w + 4.6 = 10.9w + 35.2$
100.  $0.125x = 0.025(5x + 1)$

## 1.4 Practice - Fractions

Solve each equation.

$$1) \frac{3}{5}(1+p) = \frac{21}{20}$$

$$3) 0 = -\frac{5}{4}(x - \frac{6}{5})$$

$$5) \frac{3}{4} - \frac{5}{4}m = \frac{113}{24}$$

$$7) \frac{635}{72} = -\frac{5}{2}(-\frac{11}{4} + x)$$

$$9) 2b + \frac{9}{5} = -\frac{11}{5}$$

$$11) \frac{3}{2}(\frac{7}{3}n + 1) = \frac{3}{2}$$

$$13) -a - \frac{5}{4}(-\frac{8}{3}a + 1) = -\frac{19}{4}$$

$$15) \frac{55}{6} = -\frac{5}{2}(\frac{3}{2}p - \frac{5}{3})$$

$$17) \frac{16}{9} = -\frac{4}{3}(-\frac{4}{3}n - \frac{4}{3})$$

$$19) -\frac{5}{8} = \frac{5}{4}(r - \frac{3}{2})$$

$$21) -\frac{11}{3} + \frac{3}{2}b = \frac{5}{2}(b - \frac{5}{3})$$

$$23) -(-\frac{5}{2}x - \frac{3}{2}) = -\frac{3}{2} + x$$

$$25) \frac{45}{16} + \frac{3}{2}n = \frac{7}{4}n - \frac{19}{16}$$

$$27) \frac{3}{2}(v + \frac{3}{2}) = -\frac{7}{4}v - \frac{19}{6}$$

$$29) \frac{47}{9} + \frac{3}{2}x = \frac{5}{3}(\frac{5}{2}x + 1)$$

$$2) -\frac{1}{2} = \frac{3}{2}k + \frac{3}{2}$$

$$4) \frac{3}{2}n - \frac{8}{3} = -\frac{29}{12}$$

$$6) \frac{11}{4} + \frac{3}{4}r = \frac{163}{32}$$

$$8) -\frac{16}{9} = -\frac{4}{3}(\frac{5}{3} + n)$$

$$10) \frac{8}{2} - \frac{7}{4}v = -\frac{9}{8}$$

$$12) \frac{41}{9} = \frac{5}{2}(x + \frac{2}{3}) - \frac{1}{3}x$$

$$14) \frac{1}{3}(-\frac{7}{4}k + 1) - \frac{10}{3}k = -\frac{13}{8}$$

$$16) -\frac{1}{2}(\frac{2}{3}x - \frac{3}{4}) - \frac{7}{2}x = -\frac{83}{24}$$

$$18) \frac{2}{3}(m + \frac{9}{4}) - \frac{10}{3} = -\frac{53}{18}$$

$$20) \frac{1}{12} = \frac{4}{3}x + \frac{5}{3}(x - \frac{7}{4})$$

$$22) \frac{7}{6} - \frac{4}{3}n = -\frac{3}{2}n + 2(n + \frac{3}{2})$$

$$24) -\frac{149}{16} - \frac{11}{3}r = -\frac{7}{4}r - \frac{5}{4}(-\frac{4}{3}r + 1)$$

$$26) -\frac{7}{2}(\frac{5}{3}a + \frac{1}{3}) = \frac{11}{4}a + \frac{25}{8}$$

$$28) -\frac{8}{3} - \frac{1}{2}x = -\frac{4}{3}x - \frac{2}{3}(-\frac{13}{4}x + 1)$$

$$30) \frac{1}{3}n + \frac{29}{6} = 2(\frac{4}{3}n + \frac{2}{3})$$



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