

Exercises [A-4]

[12-01-26-B]

Solve the following equations. Check as directed by your teacher.

1.  $\frac{x}{6} - 4 = \frac{x}{3}$

7. Solve  $S = a + (n - 1)d$  for  $n$ .

2.  $24s - \frac{3a}{5} = -\frac{117}{5}$  (Solve for  $s$ .)

8. Solve  $N = \frac{s}{w} - 1$  for  $s$ .

3.  $\frac{x}{2} - \frac{a}{6} = \frac{a}{3}$  (Solve for  $x$ .)

9.  $\frac{x-c}{3} - \frac{x-2c}{4} = 0$  (Solve for  $x$ .)

4.  $\frac{3x-4y}{5} = 10$  (Solve for  $y$ .)

10.  $\frac{3x-1}{7} - \frac{x+2}{5} = 10$

5. Solve  $C = \pi d$  for  $d$ .

11.  $\frac{2a-3}{5} - \frac{3a-1}{10} = \frac{2}{5}$

6. Solve  $P = 2l + 2w$  for  $l$ ; for  $w$ .

12.  $\frac{a+1}{4} + \frac{a+2}{5} = 2$

16.  $\frac{a-6}{2a} = \frac{a+7}{a} - \frac{3}{5}$

13.  $\frac{1}{2}(x-5) - 7(x+1) = \frac{1}{4}(x-12)$

17.  $\frac{r-2}{5r} - \frac{r-7}{10r} = \frac{r-3}{4r}$

14.  $\frac{2-3x}{10} + \frac{9x+4}{6} = \frac{7}{15}$

18.  $.06r = 3.06$

15.  $\frac{5}{2x} - \frac{3}{4x} = \frac{7}{4}$

19.  $.65x - .05 = .45x$

20.  $1.2x + 3.05 = .95x - .20$

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1. -24

3. a

5.  $\frac{G}{H}$

2.  $\frac{3a-117}{120}$

4.  $\frac{3x-50}{4}$

6.  $\frac{P-2w}{2}, \frac{P-2l}{2}$

7.  $\frac{S-a+d}{d}$

11. 9

15. 1

19.  $\frac{1}{4}$

8.  $Nw + w$

12. 3

16. 100

20. -13

9. -2c

13.  $-\frac{26}{27}$

17. 7

10.  $46\frac{1}{8}$

14.  $-\frac{1}{3}$

18. 51