

# IRE - Algebra - Review - Lessons 1-7

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Add, subtract, multiply or divide.

1.  $(-9) + (-3) = -12$  2.  $(-8) \times (27) = -216$

3.  $12 + (+21) = 33$  4.  $(-42) \div 7 = -6$

5.  $-13 \times -11 = +143$  6.  $(43) + (-65) = -22$

7.  $(36) \times (-8) = -288$  8.  $52 \div (-6) = -8.667$

Simplify.

9.  $-3^3 = -27$  10.  $-(8)^2 = -64$

11.  $(-7)^3 = -343$  12.  $(-\frac{2}{3})^2 = +\frac{4}{9}$

Write in exponential notation.

13.  $234.8 = 2 \times 10^2 + 3 \times 10^1 + 4 \times 10^0 + 8 \times \frac{1}{10^1}$

Write in standard notation:

14.  $6 \times 10^4 + 2 \times 10^2 + 8 \times \frac{1}{10^1} + 3 \times \frac{1}{10^2} =$

~~60~~ 6 0, 2 0 0. 8 3

60,200.83

Solve.

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$$15. \quad \overset{10}{\frac{2}{7}} + \overset{21}{\frac{3}{5}} = \frac{31}{35}$$

$$16. \quad \overset{36}{\frac{9}{8}} - \overset{24}{\frac{3}{4}} = \frac{12}{32} = \frac{3}{8}$$

$$17. \quad \overset{1}{\frac{3}{8}} \times \overset{5}{\frac{5}{6}} = \frac{5}{16}$$

$$18. \quad \frac{2}{5} \text{ of } \overset{10}{50} = 20$$

$$19. \quad \frac{7}{15} \div \frac{1}{5} = \quad \text{~~20~~}$$

$$\frac{7}{15} \cdot \overset{5}{\frac{5}{1}} = \frac{7}{3} = 2\frac{1}{3}$$

20. IF NAOMI BOUGHT A PURSE FOR \$50, but it was ~~50~~ 20% off the day she bought it and tax was 10%, how much did she pay in all?

$$50 \times .8 = 40$$
$$\begin{array}{r} 40 \\ \times 1.1 \\ \hline 44 \end{array} = \underline{\underline{44}}$$