Fast Facts

See how many you can do in one minute!

32 ÷ 8 = _____	50 ÷ 10= _____	63 ÷ 9 = _____	84 ÷ 7 = _____
36 ÷ 3 = _____	42 ÷ 7 = _____	24 ÷ 3 = _____	48 ÷ 8 = _____
45 ÷ 5 = _____	49 ÷ 7 = _____	81 ÷ 9 = _____	40 ÷ 4 = _____
72 ÷ 8 = _____	24 ÷ 12= _____	56 ÷ 8 = _____	54 ÷ 9 = _____
36 ÷ 4 = _____	63 ÷ 7 = _____	72 ÷ 6 = _____	25 ÷ 5 = _____

Awesome Algebra!

For a Khan Academy lesson on the basics of algebraic expressions and equations, go to:
http://www.khanacademy.org/math/algebra/solving-linear-equations/v/variables-expressions-and-equations. *Then for videos on solving algebraic equations, go to*
http://www.khanacademy.org/math/algebra/solving-linear-equations/v/solving-one-step-equations *and* http://www.khanacademy.org/math/algebra/solving-linear-equations/v/solving-one-step-equations-2

Write an algebraic expression for each. Then evaluate, given $n = 12$.

1. 8.5 more than n

2. $7\frac{1}{2}$ less than n

3. 5 more than the difference of n minus $^-5$

4. the sum of n and 8 divided by $^-4$

5. n less than $^-9$

6. the product of n and 3

7. Which algebraic expression is the same as "6 less than three times a number n."

   A $6 - 3n$

   B $3n - 6$

   C $(3 - n) \times 6$

   D $(n - 3) \times 6$

8. What is the value of $2n - 12\frac{3}{4}$, given $n = \frac{1}{4}$?

   _____

Write each equation in words then solve for the variable.

1. $2n - 8 = 14$ _____

_____

2. $n + 9 = 32$ _____

_____

3. $w + 16 = 29$ _____

_____

4. $16.5 + y = 37.9$ _____

_____

Simplify the following:

$$3x + 4 - 2x + 6$$

a. $x + 10$
b. $x - 2$
c. $5x - 2$
d. $11x$

Select the equation that correctly expresses the relationship shown in the table between what a person is paid and the number of hours she works.

Pay	Hours (H)
$5.35	1
$10.70	2
$16.05	3

a. $5.35 \times H$
b. $H + 5.35$
c. $5.35 \div H$
d. 5.35

Web Links

Try these web sites for additional practice and interactive learning!

- Ratio Martian Game – site for identifying ratios
  http://www.mathplayground.com/ASB_RatioMartian.html