



**INTO
MATH**
LEARN IT FAST

GRADE 7 - LESSON 7

**COLLECTING LIKE TERMS.
SOLVING LINEAR
EQUATIONS.**

RECALL

Multiplication Properties

COMMUTATIVE

$$a \times b = b \times a$$

ASSOCIATIVE

$$(a \times b) \times c = a \times (b \times c)$$

DISTRIBUTIVE

$$a \times (b + c) = a \times b + a \times c = ab + ac$$

COLLECTING LIKE TERMS

In the expression (term) $3n$,
 3 is the coefficient of the
variable n

If the two terms have the exact same variables, they are called **like terms**

Collecting like terms: $4t - 3t = (4 - 3) t = 1t = t$

To collect like terms, add their coefficients and multiply the result by the common variable.

SOLVING LINEAR EQUATIONS

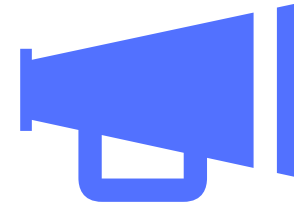
Determine the value of n that makes the equation $8n = -32$ balanced.

Think in terms of division: $n = -32 / 8$, $n = -4$

You will get the same result, if you divide both sides of the equation by 8.

Solve the equation $0.1x = -3$

SOLVING LINEAR EQUATIONS



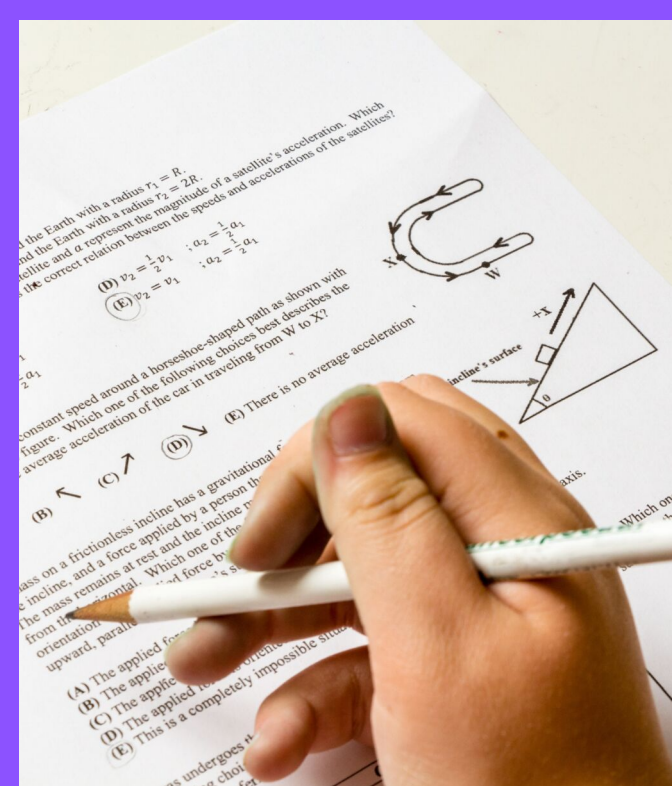
- Both sides of the equation can be multiplied or divided by any number that is not 0.
- You can add the same number or the same expression to both sides of the equation
- Addends may be moved from one side of the equation to another, changing their signs to the opposite

SOLVING LINEAR EQUATIONS

EXTENSION

Solve an equation: $5s - 1 = 9$

Solve an equation: $8s + 5 = 10s - 3$



**CONGRATULATIONS!
YOU HAVE COMPLETED
GRADE 7!**

With questions, requests or suggestions
email us at intomath101@gmail.com

For more resources visit
www.intomath.org

you ROCK!

