Name

Rearrange formulas to isolate a variable

1

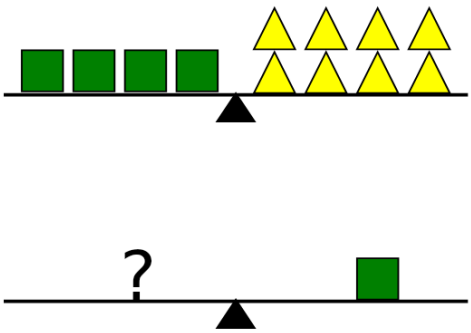
How would you check whether x = 3 is a solution to this linear equation?

$$4(4x+4)=2x+58$$

A	$44(3)+4=2(3)+58$
B	$4(4(3)+4)=2x+58$
C	$4(4(4)+4)=2(4)+58$
D	$4(4(3)+4)=2(3)+58$

2

Which equations and answer represent these balance beams and the bottom solution



A	$4s=8t$ $2t=s$
B	$4s=7t$ $5t=s$

3

Solve for the variable in the equation

$$r+5=16-4$$

A	$r=5$	B	$r=8$
C	$r=4$	D	$r=10$
E	$r=9$	F	$r=7$

4

Solve the fraction for 'x' in terms of the variables and reduce.

$$a=\frac{4x}{4b}$$

A	$x=a\cdot b$
B	$x=\frac{b}{16a}$
C	$x=\frac{a\cdot b}{16}$

5

Solve the two-step inequality for x.

$$11-5x\geq -4$$

A	$x\geq 3$	B	$x<3$
C	$x\leq 3$	D	$x\leq 4$

Name

Rearrange formulas to isolate a variable

6

What is the length of the missing side of this Triangular Prism?

A 9	B 10	C 5
D 12	E 4	F 1

7

Solve the fraction for 'x' in terms of the variables and reduce.

$$s = \frac{o}{x}$$

A

$$x = s \cdot o$$

B

$$x = \frac{s}{o}$$

C

$$x = \frac{o}{s}$$

8

Given the simple interest formula, how would you solve for Time?

$$I = PRT$$
$$T = ?$$

A $T = \frac{P}{IR}$	B $T = \frac{I}{PR}$

9

Solve for the variable in the equation

$$d + 3 = 15 - 4$$

A $d = 11$	B $d = 5$
C $d = 10$	D $d = 8$
E $d = 9$	F $d = 7$

10

Solve the fraction for 'x' in terms of the variables and reduce.

$$a = \frac{2x}{3b}$$

A $x = \frac{3a \cdot b}{2}$	B $x = \frac{b}{6a}$
C $x = \frac{b}{a}$	D $x = \frac{a}{6b}$

11

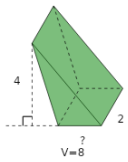
Solve the two-step inequality for x.

$$-6 + \frac{x}{7} > 1$$

A $x > 49$	B $x \geq 49$
C $x < 49$	D $x > 50$

12

What is the length of the missing side of this Triangular Prism?



A 5	B 4	C 3
D 7	E 9	F 2