

## Quick Quiz 10042019

Name.....

Periods.....

Solve these equations:

1.

$$2(x + 6) = 14$$

2.

$$5(x - 8) = 40$$

3.

$$3(2x + 1) = 30$$

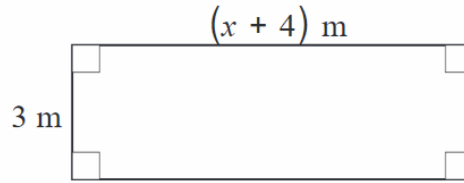
4.

$$8(2x - 12) = 24$$

5.

A rectangle has sides of length  
3 m and  $(x + 4)$  m.

Find the value of  $x$ , if the area of the  
rectangle is  $18 \text{ m}^2$ .



6.

Feti chooses a number, adds 7, multiplies the result by 5 and gets the  
answer 55.

- (a) If  $x$  is the number Feti first chose, write down an equation that can be  
used to determine the number.
- (b) Solve the equation to determine the value of  $x$ .

7.

$$4(7 - x) = 20$$

8.

$$3(9 - x) = 15$$

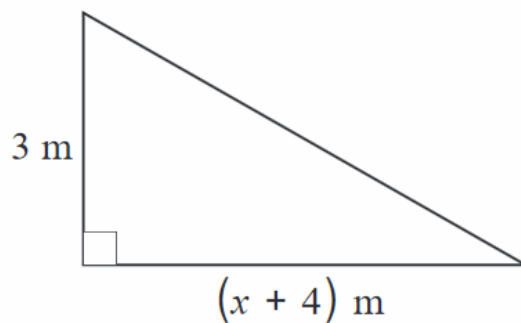
9.

Alice thinks of a number, subtracts it from 11 and then multiplies her answer by 5 to get 45. What was the number that Alice started with?

10.

$$6(5 - 2x) = 18$$

Bonus Question



- (a) Write down an expression for the area of the triangle.
- (b) What is  $x$  if the area is  $15 \text{ m}^2$  ?



## High School Mathematics Assessment Reference Sheet

1 inch = 2.54 centimeters	1 kilometer = 0.62 mile	1 cup = 8 fluid ounces
1 meter = 39.37 inches	1 pound = 16 ounces	1 pint = 2 cups
1 mile = 5280 feet	1 pound = 0.454 kilograms	1 quart = 2 pints
1 mile = 1760 yards	1 kilogram = 2.2 pounds	1 gallon = 4 quarts
1 mile = 1.609 kilometers	1 ton = 2000 pounds	1 gallon = 3.785 liters
		1 liter = 0.264 gallons
		1 liter = 1000 cubic centimeters

Triangle	$A = \frac{1}{2}bh$
Parallelogram	$A = bh$
Circle	$A = \pi r^2$
Circle	$C = \pi d$ or $C = 2\pi r$
General Prisms	$V = Bh$
Cylinder	$V = \pi r^2 h$
Sphere	$V = \frac{4}{3}\pi r^3$
Cone	$V = \frac{1}{3}\pi r^2 h$
Pyramid	$V = \frac{1}{3}Bh$

Quadratic Formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Arithmetic Sequence	$a_n = a_1 + (n - 1)d$
Geometric Sequence	$a_n = a_1 r^{n-1}$
Geometric Series	$S_n = \frac{a_1 - a_1 r^n}{1 - r}$ where $r \neq 1$
Radians	1 radian = $\frac{180}{\pi}$ degrees
Degrees	1 degree = $\frac{\pi}{180}$ radians



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