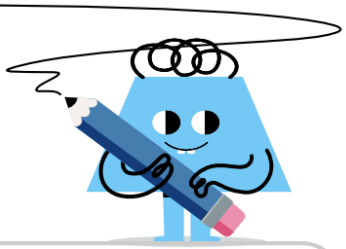
Name

Quadratic Equation Word Problem To Solution - Height over Time



1 Given this equation for the height of a soccer ball kicked from ground, when does it land?

$$h(t) = -5t^2 + 3t + 7$$

A	$t = 1.479s$	B	$t = 4.521s$
C	$t = 1.521s$		

2 Given this equation for the height of a soccer ball kicked from ground, when does it land?

$$h(t) = -5t^2 + 8t + 9$$

A	B
$t = 7.362s$	$t = 2.362s$

3 Given this equation for the height of a rocket as a function of time, when does it land?

$$h(t) = -10t^2 + 11t + 7$$

A	$t = 1.551s$	B	$t = 2.551s$
C	$t = 1.449s$		

4 Given this equation for the height of a ball thrown from a window, when does it land?

$$h(t) = -8t^2 + 11t + 2$$

A	$t = 3.462s$	B	$t = 2.538s$
C	$t = 1.538s$		

5 Given this equation for the height of a soccer ball kicked from ground, when does it land?

$$h(t) = -9t^2 + 7t + 3$$

A	$t = 3.085s$	B	$t = 1.085s$
C	$t = 0.085s$		

6 Given this equation for the height of a rocket as a function of time, when does it land?

$$h(t) = -6t^2 + 4t + 2$$

A	B	C
$t = 1s$	$t = 2s$	$t = 6s$

7 Given this equation for the height of a soccer ball kicked from ground, when does it land?

$$h(t) = -3t^2 + 3t + 2$$

A	$t = 5.457s$	B	$t = 3.457s$
C	$t = 1.457s$		

8 Given this equation for the height of a ball thrown from a window, when does it land?

$$h(t) = -2t^2 + 11t + 6$$

A	B
$t = 6s$	$t = 3s$