

Name: Class:

Which x satisfies an equation?**1.** What value of x is a solution to the equation $12 - x = 8$?

$x = -4$ or $x = 4$

What value of x is a solution to the equation $7 - x = 2$?

$x = -5$ or $x = 5$

What value of x is a solution to the equation $24 - x = 16$?

$x = -8$ or $x = 8$

2. Solve the problems below and choose the answer from the list.

$80 - 20x = 40$

$x = 4$

$x = 3$

$x = 2$

$x = 1$

$\frac{1}{2} + \frac{x}{2} = 6\frac{1}{2}$

$x = 13$

$x = 10$

$x = 9$

$x = 0$

$\frac{p}{100} = \frac{1}{2}$

20

25

100

50

$30s = 600$

$s = 5$

$s = 20$

$s = 10$

$s = 3$

Name: Class:

Which x satisfies an equation?

1. What value of x is a solution to the equation $12 - x = 8$?
 $x = -4$ or $x = 4$
 To find the solution, substitute each value of x into the equation $12 - x = 8$.
 Substitute the value $x = -4$ into the equation.
 $12 - x = 8$
 $12 - (-4) ? 8$
 $12 + 4 ? 8$
 $16 \neq 8$
 No, 16 is not equal to 8.
 So, the value $x = -4$ is not a solution to this equation.
 Try substituting the value $x = 4$ in to the equation.
 $12 - x = 8$
 $12 - 4 ? 8$
 Yes, $8 = 8$
 So, the value $x = 4$ is a solution to this equation.

2. Solve the problems below and choose the answer from the list.

$80 - 20x = 40$

$x = 4$ $x = 3$ $x = 2$ $x = 1$

$1/2 + x/2 = 6 \ 1/2$

$x = 13$ $x = 10$ $x = 9$ $x = 0$

$p/100 = 1/2$

20 25 100 50

$30s = 600$

$s = 5$ $s = 20$ $s = 10$ $s = 3$