



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Fresh  
Math

## Algebra 1 – Equations Mastery Test

Solve each two-step equation. Show your work.

1.  $2(3x + 7) = 104$

6.  $6x + 48 = 5x + 86$

2. If  $x = 7$ , what equals  $6x + 9$ ?

7. Find  $x$  if  $x + 9 = 19$

3. Find  $x$  if  $x + 10 = 18$

8. If  $x = 7$ , what equals  $4x + 6$ ?

4.  $4x + 15 = 3x + 63$

5. If  $x = 3$ , what equals  $6x + 6$ ?



# Algebra 1 – Equations Mastery Test – Answer Key

1.  $2(3x + 7) = 104$

$x = 15$

6.  $6x + 48 = 5x + 86$

$x = 38$

2. If  $x = 7$ , what equals  $6x + 9$ ?

$x = 51$

7. Find  $x$  if  $x + 9 = 19$

$x = 10$

3. Find  $x$  if  $x + 10 = 18$

$x = 8$

8. If  $x = 7$ , what equals  $4x + 6$ ?

$x = 34$

4.  $4x + 15 = 3x + 63$

$x = 48$

5. If  $x = 3$ , what equals  $6x + 6$ ?

$x = 24$