

Name: _____

Algebraic Equations

Tell whether each algebraic equation is correct.
Write true or not true on the line next to each.

1. $a - 6 = 4, a = 10$ _____

2. $\frac{c}{12} = 2, c = 6$ _____

3. $\frac{d}{6} = 3, d = 18$ _____

4. $8z = 48, z = 7$ _____

5. $x + x + 7 = 16, x = 4$ _____

6. $\frac{30}{5} = h, h = 6$ _____

7. $\frac{8}{i} = 1, i = 8$ _____

8. $13 - z = 8, z = 4$ _____



Preview

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11. $\frac{18}{k} = 2, k = 9$ _____

12. $12 + j = 21, j = 6$ _____

13. $7a = 28, a = 3$ _____

14. $\frac{24}{y} = 4, y = 8$ _____

15. $\frac{36}{6} = b, b = 3$ _____

16. $17 - v = 5, v = 12$ _____

17. Is the equation in the box to the right always false, no matter what value you give the variable? Explain your answer.

$0b = 4$

ANSWER KEY

Algebraic Equations

Tell whether each algebraic equation is correct.
Write true or not true on the line next to each.

1. $a - 6 = 4, a = 10$ true

2. $\frac{c}{12} = 2, c = 6$ not true

3. $\frac{d}{6} = 3, d = 18$ true

4. $8z = 48, z = 7$ not true

5. $x + x + 7 = 16, x = 4$ not true

6. $\frac{30}{5} = h, h = 6$ true

7. $\frac{8}{i} = 1, i = 8$ true

8. $13 - z = 8, z = 4$ not true



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11. $\frac{18}{k} = 2, k = 9$ true

12. $12 + j = 21, j = 6$ ~~6~~ j = 9

13. $7a = 28, a = 3$ ~~3~~ a = 4

14. $\frac{24}{y} = 4, y = 8$ ~~8~~ y = 6

15. $\frac{36}{6} = b, b = 3$ ~~3~~ b = 6

16. $17 - v = 5, v = 12$ true

17. Is the equation in the box to the right always false, no matter what value you give the variable? Explain your answer.

$0b = 4$

Yes, it is always false. Anything times zero will always equal zero.

There is nothing you can multiply by zero to make 4.