

Name: _____

Advanced

Basic Algebra 2026



Determine the value of the variable in each equation.

1. $1,234 + k = 2,026$

2. $\frac{2,026}{z} = 2,026$

3. $2,026r = 8,104$

$k =$ _____

$z =$ _____

$r =$ _____



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7. $h + 1,099 = 2,026$

8. $2,026p = 6,078$

9. $w - 2,026 = -206$

$h =$ _____

$p =$ _____

$w =$ _____

10. $506.5g = 2,026$

11. $\frac{12,156}{b} = 2,026$

12. $20v = 2,026$

$g =$ _____

$b =$ _____

$v =$ _____

ANSWER KEY

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Determine the value of the variable in each equation.

$$\begin{array}{r} 1. \quad \cancel{1,234} + k = 2,026 \\ \underline{\cancel{-1,234}} \quad \underline{\cancel{-1,234}} \\ k = 792 \end{array}$$

$$\begin{array}{r} 2. \quad \cancel{(z)} \frac{2,026}{\cancel{z}} = 2,026 \quad (z) \\ \frac{2,026}{2,026} = \frac{\cancel{2,026} z}{\cancel{2,026}} \end{array}$$

$$\begin{array}{r} 3. \quad \frac{\cancel{2,026} r}{\cancel{2,026}} = \frac{8,104}{2,026} \\ r = 4 \end{array}$$

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$$g = \underline{4}$$

$$b = \underline{6}$$

$$v = \underline{101.3}$$