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Name: ..... Class: .....

## Solve variable expressions

Find the values of the following variables.

**a.** $4(z - 6) = 48$

**b.** $u + 380 - 107 = 512$

**c.** $y \div 12 \times 6 = 7$

Solution

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## Solve variable expressions

Find the values of the following variables.

**a.** $4(z - 6) = 48$

Let's first of all multiply all through by 4

$4(z - 6) = 4z - 24$

$4z - 24 = 48$

Secondly, let's add 24 on both sides of the expression

$4z - 24 + 24 = 48 + 24$

$4z = 72$

Finally, to find z, we divide both sides by 4

$z = \frac{72}{4} = 18$

So, $z = 18$

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**b.** $u + 380 - 107 = 512$

Let's first of all subtract

$u + 380 - 107 = 512$

$u + 273 = 512$

Then to solve u,

let's subtract 273 from both sides

$u + 273 - 237 = 512 - 237$

$u = 239$

So, $u = 239$

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**c.** $y \div 12 \times 6 = 7$

Let's first of all multiply 12 by 6

$y \div 12 \times 6 = 7$

$y \div 72 = 7$

Then to solve y,

Multiply both sides by 72

$\frac{y}{72} \times 72 = 7 \times 72$

$y = 7 \times 72$

$y = 504$

So, $y = 504$