



## Quadratic Equation Word Problem To Expression - Volume from Sheet

**1**

What equation gives the volume of the box?

A box is made from a 8cm by 4cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A  $V(x) = (8 + 2x) \cdot (4 + 2x)$

B  $V(x) = (8 - 2x) \cdot (4 - 2x)$

C  $V(x) = \left(\frac{8}{2} - x\right) \cdot \left(\frac{4}{2} - x\right)$

**2**

What equation gives the volume of the box?

A box is made from a 6cm by 4cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A  $V(x) = (6 - 2x) \cdot (4 - 2x)$

B  $V(x) = (6 + 2x) \cdot (4 + 2x)$

**3**

What equation gives the volume of the box?

A box is made from a 8cm by 11cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A  $V(x) = (8 - 2x) \cdot (11 - 2x)$

B  $V(x) = (8 + 2x) \cdot (11 + 2x)$

**4**

What equation gives the volume of the box?

A box is made from a 10cm by 9cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A  $V(x) = \left(\frac{10}{2} - x\right) \cdot \left(\frac{9}{2} - x\right)$

B  $V(x) = (10 - 2x) \cdot (9 - 2x)$

C  $V(x) = (10 + 2x) \cdot (9 + 2x)$

**5**

What equation gives the volume of the box?

A box is made from a 8cm by 10cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A  $V(x) = (8 + 2x) \cdot (10 + 2x)$

B  $V(x) = \left(8 - \frac{x}{2}\right) \cdot \left(10 - \frac{x}{2}\right)$

C  $V(x) = (8 - 2x) \cdot (10 - 2x)$

**6**

What equation gives the volume of the box?

A box is made from a 9cm by 7cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A  $V(x) = (9 - 2x) \cdot (7 - 2x)$

B  $V(x) = \left(\frac{9}{2} - x\right) \cdot \left(\frac{7}{2} - x\right)$

C  $V(x) = (2 \cdot 9 + x) \cdot (2 \cdot 7 + x)$

**7**

What equation gives the volume of the box?

A box is made from a 2cm by 6cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A  $V(x) = (2 + 2x) \cdot (6 + 2x)$

B  $V(x) = \left(\frac{2}{2} - x\right) \cdot \left(\frac{6}{2} - x\right)$

C  $V(x) = (2 - 2x) \cdot (6 - 2x)$

**8**

What equation gives the volume of the box?

A box is made from a 10cm by 3cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A  $V(x) = (10 - 2x) \cdot (3 - 2x)$

B  $V(x) = (10 + 2x) \cdot (3 + 2x)$