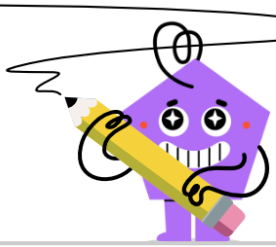
Name

Quadratic Equation Word Problem To Expression - Volume from Sheet



1

A box is made from a 5cm by 7cm sheet of carboard by cutting x cm into each side and folding up.

What equation gives the volume of the box?

A $V(x) = (5 + 2x) \cdot (7 + 2x)$

B $V(x) = (5 - 2x) \cdot (7 - 2x)$

C $V(x) = (2 \cdot 5 + x) \cdot (2 \cdot 7 + x)$

2

A box is made from a 8cm by 2cm sheet of carboard by cutting x cm into each side and folding up.

What equation gives the volume of the box?

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

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

C $V(x) = (8 + 2x) \cdot (2 + 2x)$

3

A box is made from a 5cm by 3cm sheet of carboard by cutting x cm into each side and folding up.

What equation gives the volume of the box?

A $V(x) = (5 - 2x) \cdot (3 - 2x)$

B $V(x) = (2 \cdot 5 + x) \cdot (2 \cdot 3 + x)$

C $V(x) = (\frac{5}{2} - x) \cdot (\frac{3}{2} - x)$

4

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

What equation gives the volume of the box?

A $V(x) = (9 + 2x) \cdot (9 + 2x)$

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

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

5

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

What equation gives the volume of the box?

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

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

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

6

A box is made from a 4cm by 9cm sheet of carboard by cutting x cm into each side and folding up.

What equation gives the volume of the box?

A $V(x) = (\frac{4}{2} - x) \cdot (\frac{9}{2} - x)$

B $V(x) = (4 - 2x) \cdot (9 - 2x)$

C $V(x) = (4 + 2x) \cdot (9 + 2x)$

7

A box is made from a 7cm by 3cm sheet of carboard by cutting x cm into each side and folding up.

What equation gives the volume of the box?

A $V(x) = (7 - 2x) \cdot (3 - 2x)$

B $V(x) = (\frac{7}{2} - x) \cdot (\frac{3}{2} - x)$

C $V(x) = (7 + 2x) \cdot (3 + 2x)$

8

A box is made from a 2cm by 4cm sheet of carboard by cutting x cm into each side and folding up.

What equation gives the volume of the box?

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

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

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