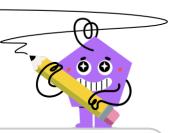


mobius

Quadratic Equation Word Problem To Expression - Volume from Sheet



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?

$$\overset{\mathsf{A}}{V}(x) = (\mathsf{5} + 2x) \cdot (\mathsf{7} + 2x)$$

$$\overset{\mathsf{B}}{V}(x) = (\mathsf{5} - 2x) \cdot (\mathsf{7} - 2x)$$

$$\stackrel{ extsf{C}}{V}(x) = (2\cdot 5 + x)\cdot (2\cdot 7 + x)$$

 $\stackrel{\mathsf{A}}{V}(x) = (\mathsf{5} + 2x) \cdot (\mathsf{7} + 2x)$ 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?

$$egin{aligned} \mathsf{A} \ V(x) = (2\cdot 8 + x) \cdot (2\cdot 2 + x) \end{aligned}$$

$$igert^{\mathsf{B}}_{V}(x) = (8-2x)\cdot(2-2x)$$

$$\overset{ extsf{C}}{V}(x) = (8+2x)\cdot(2+2x)$$

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?

$$\stackrel{\mathsf{A}}{V}(x) = (5-2x) \cdot (3-2x)$$
 A box is made from a 9cm by

$$\stackrel{\mathsf{B}}{V}(x) = (2\cdot 5 + x)\cdot (2\cdot 3 + x)$$

$$\stackrel{ extsf{C}}{V}(x) = (rac{5}{2} - x) \cdot (rac{3}{2} - x)$$

9cm sheet of carboard by cutting x cm into each side and folding up.

What equation gives the volume of the box?

$$igert^{\mathsf{A}}_{V}(x) = (9+2x)\cdot(9+2x)$$

$$\overset{\mathsf{B}}{V}(x) = (9-2x)\cdot(9-2x)$$

$$egin{aligned} \mathsf{C} \ V(x) = (\mathsf{2} \cdot \mathsf{9} + x) \cdot (\mathsf{2} \cdot \mathsf{9} + x) \end{aligned}$$

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?

$$\stackrel{\mathsf{A}}{V}(x) = (rac{4}{2} - x) \cdot (rac{6}{2} - x)$$
 A box is made from a 4cm by 9cm sheet of carboard by

$$\overset{\mathsf{B}}{V}(x) = (\mathsf{4} + \mathsf{2}x) \cdot (\mathsf{6} + \mathsf{2}x)$$

$$\overset{ extsf{C}}{V}(x) = (extsf{4} - 2x) \cdot (extsf{6} - 2x)$$

cutting x cm into each side and folding up.

What equation gives the volume of the box?

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

$$\stackrel{\mathsf{B}}{V}(x) = (\mathsf{4} - \mathsf{2} x) \cdot (\mathsf{9} - \mathsf{2} x)$$

$$\overset{ extsf{C}}{V}(x) = (\mathtt{4} + \mathtt{2}x) \cdot (\mathtt{9} + \mathtt{2}x)$$

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?

$$\stackrel{\mathsf{A}}{V}(x) = (7-2x) \cdot (3-2x)$$
 A box is made from a 2cm by

$$\overset{ extsf{B}}{V}(x)=(rac{7}{2}-x)\cdot(rac{3}{2}-x)$$

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

4cm sheet of carboard by cutting x cm into each side and What equation gives the volume of the box?

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

$$\overset{\mathsf{B}}{V}(x) = (2-2x)\cdot (4-2x)$$

$$\stackrel{ extsf{C}}{V}(x)=(rac{2}{2}-x)\cdot (rac{4}{2}-x)$$