



## Quadratic Equation Word Problem To Expression (Standard Form) - Volume from Sheet

1

What quadratic equation, in standard form, comes from calculating the volume of the box?

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

A	$V(x) = 4x^2 + 26x + 30$	B	$V(x) = 0x^2 + 29x + 30$
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C	$V(x) = 6x^2 + 26x + 27$
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2

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 11cm by 2cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A	$V(x) = 4x^2 + 26x + 22$	B	$V(x) = 4x^2 + 25x + 27$
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C	$V(x) = 7x^2 + 26x + 26$
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3

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 6cm by 10cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A	$V(x) = 4x^2 + 32x + 60$	B	$V(x) = 5x^2 + 34x + 60$
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C	$V(x) = 0x^2 + 36x + 60$
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4

What quadratic equation, in standard form, comes from calculating the volume of the box?

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

A	$V(x) = 1x^2 + 40x + 81$	B	$V(x) = 4x^2 + 36x + 81$
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C	$V(x) = 4x^2 + 40x + 79$
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5

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 5cm by 11cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A	$V(x) = 9x^2 + 32x + 59$	B	$V(x) = 4x^2 + 32x + 55$
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C	$V(x) = 6x^2 + 32x + 60$
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6

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 6cm by 7cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A	$V(x) = 4x^2 + 26x + 42$	B	$V(x) = 4x^2 + 24x + 39$
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C	$V(x) = 7x^2 + 25x + 42$
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7

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 3cm by 9cm sheet of cardboard by cutting  $x$  cm into each side and folding up.

A	$V(x) = 4x^2 + 24x + 27$	B	$V(x) = 1x^2 + 24x + 27$
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C	$V(x) = 4x^2 + 27x + 29$
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8

What quadratic equation, in standard form, comes from calculating the volume of the box?

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

A	$V(x) = 4x^2 + 24x + 35$	B	$V(x) = 7x^2 + 24x + 39$
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C	$V(x) = 4x^2 + 21x + 32$
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