

e.  $(h - 8)^2$  \_\_\_\_\_

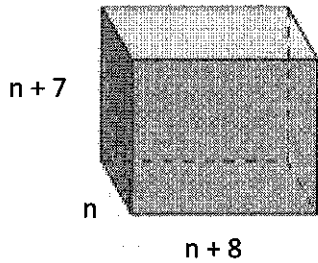
f.  $(n - 11)(n + 11)$  \_\_\_\_\_

g.  $(9w^2 + 2)(3w^2 - 4w + 8)$  \_\_\_\_\_

h.  $(4x + 5)^2$  \_\_\_\_\_



4) Use the formula  $V = lwh$  to write a polynomial in standard form for the volume of the box. \_\_\_\_\_



5) The width of a rectangular painting is 4 inches more than three times the height. A frame that is 1 inch wide goes around the painting.

- Write an expression for the combined area of the painting and the frame.

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- Use the expression to find the combined area when the height of the painting is 5 inches.

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- Write an expression for the area of the picture frame.

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6) You are planning to create a rectangular garden. Its length is twice its width. You want to put a walkway 2 ft around the garden.

- Write an expression for the area of the garden and the walkway.

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- Write an expression for the area of only the walkway.

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- You have enough gravel to cover  $76 \text{ ft}^2$  and want to use it all on the walkway. What dimensions should you make your garden?

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7) If  $n$  represents an even integer, write an expression that represents the product of the next two even integers.

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