

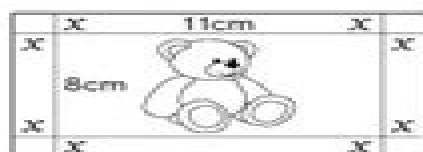
Quadratic Area Word Problems

- ① A plot of land for sale has a width of x feet, and a length that is 8 feet less than its width. A farmer will only purchase the land if it measures 240 square feet. What value of x will allow the farmer to purchase the land?

- ② The area of a rectangular field is 2000 sq.cm and its perimeter is 180 cm. Find the length and width of the field.

- ③ A rectangle whose area is 192 square feet has a width that is 4 feet less than the length. Find the dimensions of the rectangle.

- ④ A photograph $8\text{cm} \times 11\text{cm}$ will be framed as shown in the diagram. The total area of the frame and photograph is 180 cm^2 . Find the width of the frame, marked x .



Algebra Quadratic Word Problems Area

**Arnold R. Steffensen, Lee Murphy
Johnson**



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Introductory Algebra Arnold R. Steffensen, Lee Murphy Johnson, 1994

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