

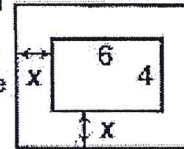
## Did You Hear About...

A	B	C	D
E	F	G	H ?

Solve each problem below. Find your answer in the answer column and notice the word next to it. Write this word in the box containing the letter of that exercise. Keep working and you will hear about something hot.

- (A) The length of a rectangle is 3 cm more than the width. The area is  $70 \text{ cm}^2$ . Find the dimensions of the rectangle.
- (B) The length of a rectangle is 4 cm more than the width. The area is  $96 \text{ cm}^2$ . Find the dimensions of the rectangle.
- (C) The length of a photograph is 1 cm less than twice the width. The area is  $45 \text{ cm}^2$ . Find the dimensions of the photograph.
- (D) If the sides of a square are increased by 3 m, the area becomes  $64 \text{ m}^2$ . Find the length of a side of the original square.
- (E) A square field had 5 m added to its length and 2 m added to its width. The field then had an area of  $130 \text{ m}^2$ . Find the length of a side of the original field.
- (F) The dimensions of a rectangular garden were 4 m by 5 m. Each dimension was increased by the same amount. The garden then had an area of  $56 \text{ m}^2$ . Find the dimensions of the new garden. (Hint: Let  $x$  be the amount of increase.)
- (G) The dimensions of a rectangular garden were 3 m by 10 m. When both dimensions were increased by equal amounts, the area of the garden doubled. Find the dimensions of the new garden.

- (H) A 4 m by 6 m rug covers half of the floor area of a room and leaves a uniform strip of bare floor around the edges. What are the dimensions of the room?



6 m	THAT
5 m by 12 m	HOT
7 cm by 10 cm	THE
8 cm by 11 cm	CHAIRS
8 m	WHO
4 cm by 7 cm	GUY
5 m	DEALER
7 m by 9 m	PILLOWS
8 cm by 12 cm	CROOKED
7 m by 8 m	BUYS
5 m by 6 m	STUFF
6 m by 8 m	WATERBEDS
8 m by 9 m	SELLS
7 m by 14 m	TABLES
5 cm by 9 cm	FURNITURE