Write a Function Rule

Name: ___

Write a function rule that represents each situation.

1. y is less than the product of 4 and x.

2. 7 less than three fifths of *b* is *a*.

- 3. A worker's earnings *e* are a function of the number of hours *n* worked at a rate of \$8.75 per hour.
- 4. The price p of a pizza is \$6.95 plus \$0.95 for each topping t on the pizza.
- 5. The almond extract *a* remaining in an 8-oz bottle decreases by $\frac{1}{6}$ oz for each batch *b* of cookies made.
- 6. A helicopter hovers 40 ft above the ground. Then the helicopter climbs at a rate of 21 feet per second. Write a rule that represents the helicopter's height *h* above the ground as a function of time *t*. What is the helicopter's height after 45 seconds?
- 7. A new book is being planned. It will have 24 pages of introduction. Then it will have *c* 12-page chapters and 48 more pages at the end. Write a rule that represents the number of pages *p* in the book as a function of the number of chapters. Suppose the book has 25 chapters. How many pages will it have?
- 8. Write a function rule for the area of a triangle with a base 3 cm greater than 5 times its height. What is the area of the triangle when its height is 6 cm?
- 9. Write a function rule for the area of a rectangles with a length 2ft less than three times its width. What is the area of the rectangle when its width is 2 ft?