## Write a Puncrion Rule

Name: $\qquad$

## 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 2 ft less than three times its width. What is the area of the rectangle when its width is 2 ft ?
