

Writing a Function Rule Bell Work

Write a function rule representing the verbal statement given in each case.

1) 12 more than the quotient of a number p and 7 is q .

2) 24 less than 11 times a number x is y .

3) One fourth of a decreased by 5 is b .

4) 8 more than 5 times a number n is -27 .

5) m is 9 more than one third of n .

6) 6 fewer than 12 times a number s is t .

7) Jenna is 4 years younger than 3 times her brother's age. Write a rule that represents Jenna's age j as a function of his brother's age b . How old is Jenna if her brother is 14?

Writing a Function Rule Bell Work**Answer Key**

Write a function rule representing the verbal statement given in each case.

- 1) 12 more than the quotient of a number p and 7 is q .

$$q = \frac{p}{7} + 12$$

- 2) 24 less than 11 times a number x is y .

$$y = 11x - 24$$

- 3) One fourth of a decreased by 5 is b .

$$b = \frac{1}{4}a - 5$$

- 4) 8 more than 5 times a number n is -27 .

$$5n + 8 = -27$$

- 5) m is 9 more than one third of n .

$$m = \frac{1}{3}n + 9$$

- 6) 6 fewer than 12 times a number s is t .

$$t = 12s - 6$$

- 7) Jenna is 4 years younger than 3 times her brother's age. Write a rule that represents Jenna's age j as a function of his brother's age b . How old is Jenna if her brother is 14?

Rule: $j = 3b - 4$ when $b = 14$,

$$j = 3(14) - 4$$

$$j = 42 - 4 = 38 \text{ years}$$