

Writing a Function Rule Assignment

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

1. 7 less than one fourth of x is y .

2. 5 times w increased by 4 is 2 times u .

3. z is 6 more than twice y .

4. 2.5 more than quotient of a and 4 is b .

Write a function rule representing each situation.

1. The price p of a pizza is 4.95\$ plus 0.5\$ for each topping t on the pizza.

2. The cost c of the membership of a club is 30\$ for sign up and 15\$ per week w to be a member.

3. The cost d of a hotdog is 1\$ more than half the cost of a sandwich s .

Writing a Function Rule Assignment

1. Alan is 3 years younger than 2 times his brother age. Write a rule that represents Alan's age a as a function of his brother's age b . How old is Alan if his brother is 11?

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2. A taxi cab charges 3\$ for the first mile and 1.5\$ for each additional mile. Write a rule for describing the total rate r as a function of miles m . What is the taxi rate for 16 miles?

Writing a Function Rule Assignment

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

1. 7 less than one fourth of x is y .

$$y = \frac{1}{4}x - 7$$

2. 5 times w increased by 4 is 2 times u .

$$2u = 5w + 4$$

3. z is 6 more than twice y .

$$z = 2y + 6$$

4. 2.5 more than quotient of a and 4 is b .

$$b = 1.5 + \frac{a}{4}$$

Write a function rule representing each situation.

1. The price p of a pizza is 4.95\$ plus 0.5\$ for each topping t on the pizza.

$$p = 4.95 + 0.5t$$

2. The cost c of the membership of a club is 30\$ for sign up and 15\$ per week w to be a member.

$$c = 30 + 15w$$

3. The cost d of a hotdog is 1\$ more than half the cost of a sandwich s .

$$d = 1 + \frac{1}{2}s$$

Writing a Function Rule Assignment

Write a function rule in each case and then evaluate the function rule.

1. Alan is 3 years younger than 2 times his brother age. Write a rule that represents Alan's age a as a function of his brother's age b . How old is Alan if his brother is 11?

Rule: $a = 2b - 3$

when $b = 11$,

$$a = 2(11) - 3$$

$$a = 22 - 3 = 19 \text{ years}$$

2. A taxi cab charges 3\$ for the first mile and 1.5\$ for each additional mile. Write a rule for describing the total rate r as a function of miles m . What is the taxi rate for 16 miles?

Rule: $r = 3 + 1.5(m - 1)$

when $m = 16$,

$$r = 3 + 1.5(16 - 1)$$

$$r = 3 + 22.5 = 25.5\$$$