Name: _	
Date:	

1. A store offers a discount of \$ 5 for every \$ 50 in purchases.

The graph shows the value of the purchases (x) and the amount of discount a customer receives (y).



Which of the statements above are true?



- B. 2, 3 and 4
- C. 1, 2 and 4
- D. 1, 2 and 3

Answer:

 Peter wants to rent a car. He plans to drive 85 km. He checks the rental costs at two rental companies, Company 1 and Company 2. The graph below shows how cost and distance travelled work for each company.



What is the *difference* in the rental cost between the two companies at 85 km?

Company
$$1 = 590$$

Company $2 = \frac{72 - 71}{x2 - 71} = \frac{90 - 40}{100 - 0} = \frac{50}{100} = 0.5$
 $7 = \pi t b$
 $40 = 0.5 (0) T b$
 $40 = 0.4b$
 $40 = 0.4b$
 $7 = 0.5 (85) + 40$
 82.5
 7.5

Answer: The difference in price between Co. 1 and Co. 2 at 85 km is \$_____

1.5



3. Customers earn points for every purchase they make at a music store. When they have accumulated enough points, they get a gift card.

Before taxes, the values of her purchases were \$15, \$25, \$45, and \$55 respectively.

How many points did Kayla earn at the music store?

4. The cost to park a car in an expensive lot is **\$40 for the first half hour** and **\$5.00 for each additional hour or part thereof**.

Х	У	
70,0.5]	40	
70.6,1.57	45	
71.6, 2.5]	50	
72.5, 3.57	55	
73.5,4.57	60	
74.5, 5.57	65	<
75,5,6.57	70	

A customer uses this parking lot for *five hours*. *How much will the customer pay for parking*?



CHALLENGE :

5. Here is the discount advertised at a sporting goods store.



Alex bought a jersey at this store and got a discount of \$15.



Ryan bought a jersey and a cap at the same store. He got a discount of \$20. The price of the cap was \$15.99. The price of Alex's jersey was the same as Ryan's jersey.

$$Jersey + cap = 20 \text{ discount}$$

$$\frac{80}{-15.71} = \frac{15.99}{83.01}$$

$$\logest \text{ price} = 64.01$$

$$\logest \text{ price} = 79.99$$

What are the possible prices, before taxes, of the jersey Alex bought?

Answer: The possible prices, before taxes, of the jersey are: 640(-779,79)