

Question 1

- Walter is selling rock candy.
- How much money did he have to start with?
- How much money would he have after selling 22 candies?
- After selling 5 candies, he has 15 dollars.

Question 2

- Flipper is filling a pool with water.
- The pool holds 500 gallons, so how long from the time Flipper started filling the pool will it take until the pool is full?

Question 3

- A rental car company charges a flat daily rate, plus \$0.15 per mile.
- How much will it cost to rent the car if you drive from Seattle to Tacoma and back?

Question 4

- You and a friend are starting a pet washing service.
- “cost” and “start with” mean different things.
- How many pets do you need to wash to make \$20?

| | |
|---|--|
| <p>Facts</p> <ul style="list-style-type: none">• After selling three candies, Walter has eleven dollars• (3,11)• He started with some money in his bank account. | <p>Facts</p> <ul style="list-style-type: none">• After six hours, there are 250 gallons in the pool.• After 10 hours, there are 370 gallons in the pool |
| <p>Facts</p> <ul style="list-style-type: none">• The daily rate is \$19.95 and there is a charge per mile on top of that.• Seattle to Bellingham is 89 miles• Seattle to Tacoma is 33 miles• Seattle to Spokane is 280 miles | <p>Facts</p> <ul style="list-style-type: none">• You plan to charge \$5 per pet.• Supplies cost \$30 |

Question 1

- Walter is selling rock candy.
- How much money did he have to start with?
- How much money would he have after selling 22 candies?
- After selling 5 candies, he has 15 dollars.

$$2 \begin{pmatrix} (3, 11) \\ (5, 15) \end{pmatrix} > 4$$

$$\frac{4}{2}$$

$$b = 5$$

$$11 = 2(3) + x$$

$$\begin{array}{l} 22 \text{ candies} \\ \$49 \end{array}$$

Facts

- After selling three candies, Walter has eleven dollars
- (3, 11)
- He started with some money in his bank account.

Question 2

- Flipper is filling a pool with water.
- The pool holds 500 gallons, so how long from the time Flipper started filling the pool will it take until the pool is full?

$$4 \begin{pmatrix} (6, 250) \\ (10, 370) \end{pmatrix} > 120$$

$$500 = 30x + 70$$

$$430 = 30x$$

$$x = 14.333$$

Facts

- After six hours, there are 250 gallons in the pool.
- After 10 hours, there are 370 gallons in the pool

$$y = mx + b$$

$$250 = 30(6) + b$$

$$180 + b$$

$$y = 30x + 70$$

Question 3

- A rental car company charges a flat daily rate, plus \$0.15 per mile.
- How much will it cost to rent the car if you drive from Seattle to Tacoma and back?

Facts

- The daily rate is \$19.95 and there is a charge per mile on top of that.
- Seattle to Bellingham is 89 miles
- Seattle to Tacoma is 33 miles
- Seattle to Spokane is 280 miles

$$y = 0.15x + 19.95$$

$$66$$

$$y = 29.85$$

Question 4

- You and a friend are starting a pet washing service.
- "spend" and "start with" mean different things.
- How many pets do you need to wash to make \$20?

Facts

- You plan to charge \$5 per pet.
- Supplies cost \$30

$$y = 5x - 30$$

$$20 = 5x - 30$$

$$x = 10$$