1

Real Life Situations!

Oct 22-2:40 PM

Slope (m) = Cost per hour, Cost per Km, Cost per picture, etc.....

y-intercept (b)= Initial cost, base rate, initial fee, flat rate, sitting fee, starting cost etc.....

x = Number of kilometers, Number of hours, Number of pictures, etc....

y = Total Cost $$$$, Total Earned $$$

Oct 29-1:52 PM

2

Ashely babysits on the weekend to make extra money. She charges $15 as a flat rate and then $5 every hour.

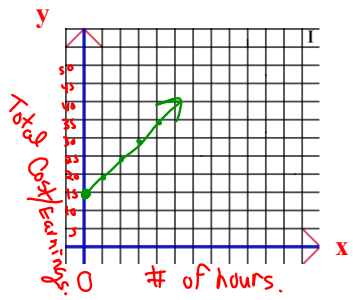
Oct 22-2:40 PM

3

Ashley babysits on the weekend to make extra money. She charges $15 as a flat rate and then $5 every hour.

y = mx + b
y = 5x + 15

Graph



b = 15
m = 5/1
x = # of hours.
y = $

Equation

Oct 22-2:40 PM

Ashely babysists on the weekend to make extra money. She charges $15 as a flat rate and then $5 every hour.

b = 15
m = 5
x = # of hours
y = Total Cost $$

y = 5x + 15

1. **How much would it cost to have Ashley babysit for 3 hours?**

y = 5x + 15
y = 5(3) + 15
y = 15 + 15
y = $30

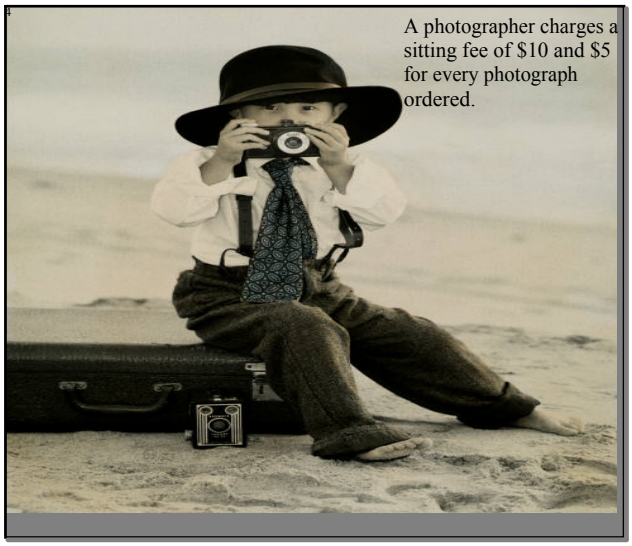
2. **How many hours could you have Ashley babysit for if you had $45?**

y = 5x + 15
45 = 5x + 15
5x + 15 = 45 - 15
5x = 30
5 5
x = 6 hrs.

Oct 29-1:49 PM

4

A photographer charges a sitting fee of $10 and $5 for every photograph ordered.

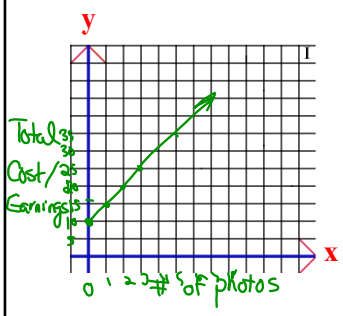


Oct 22-2:40 PM

5

A photographer charges a sitting fee of $10 and $5 for every photograph ordered.

Graph



Equation

b = $10.00
m = 5
x = # of photos
y = $

y = mx + b
y = 5x + 10

Oct 22-2:40 PM

A photographer charges a sitting fee of $10 and $5 for every photograph ordered.

b = 10
m = 5
x = # of pictures
y = Total Cost $$

y = 5x + 10

1. **How many photographs could you get for $35?**

35 = 5x + 10
5x + 10 = 35 − 10
5x = 25
5 5
x = 5 pictures

2. **How much would it cost for 8 photographs?**

y = 5x + 10
y = 5(8) + 10
y = 40 + 10
y = $50.00

Oct 29-2:02 PM

6

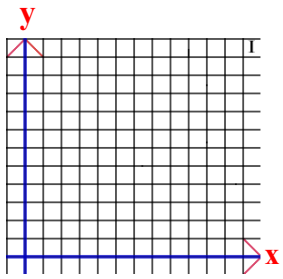
A taxi driver charges a flat fee of $25 and then $1 for every km traveled.

Oct 22-2:40 PM

7

A taxi driver charges a flat fee of $25 and then $1 for every km traveled.

Graph



Equation

b = 25
m = 1
x = # of KM
y = $

y = mx + b
y = 1x + 25

Oct 22-2:40 PM

A taxi driver charges a flat fee of $25 and then $1 for every km traveled.

b = 25
m = 1
x = # of kilometers
y = Total Cost

y = 1x + 25

1. **How far can you travel for $75?**

y = 1x + 25
75 = 1x + 25
1x + 25 = 75 − 25
x = 50 km

2. **How much would it cost to travel 85 km?**

y = 1(85) + 25
y = 85 + 25
y = $110.00

Oct 29-2:25 PM