1

Real Life Situations!

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 $$$$, Total Earned $$$

2

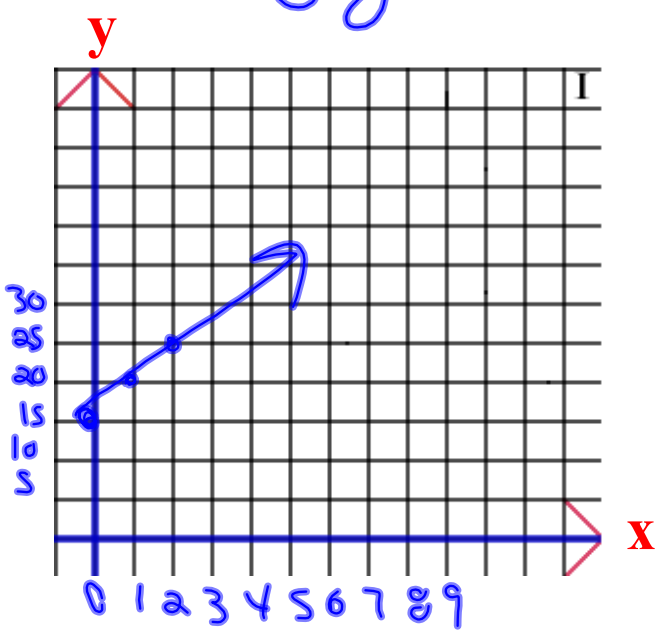
Ashely babysits on the weekend to make extra money. She charges $15 as a flat rate and then $5 every hour.

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

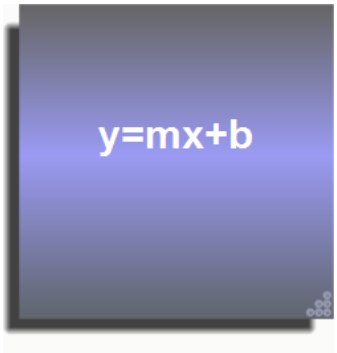
Graph

$y = mx + b$
$y = 5x + 15$

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



Equation



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

$y = 5x + 15$

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

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

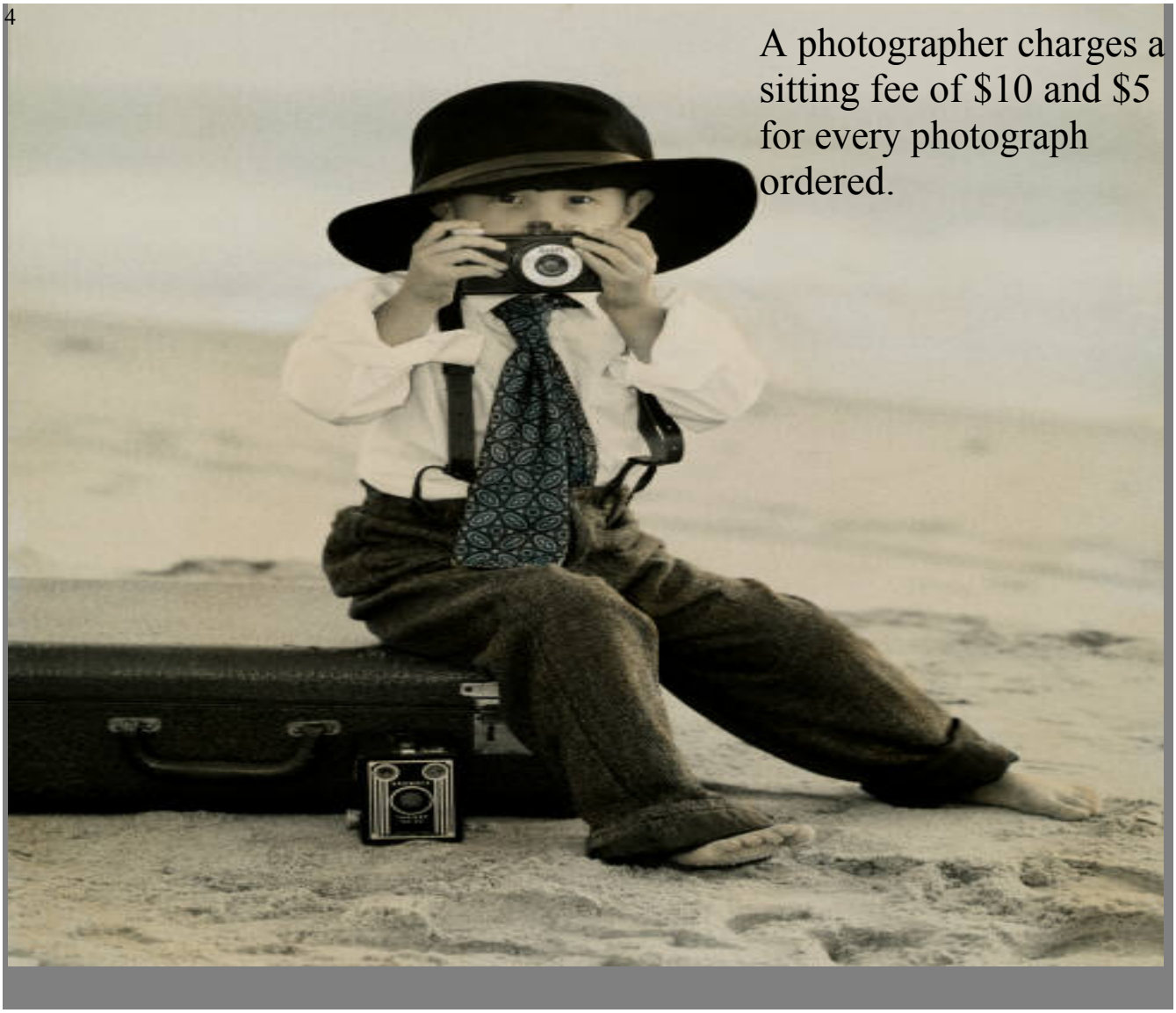
$y = 5(3) + 15$
$y = 15 + 15$
$y = \$30.00$

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

$45 = 5x + 15$
$-15 \quad -15$
$\frac{30}{5} = \frac{5x}{5}$
$x = 6$

6 Hours.

4



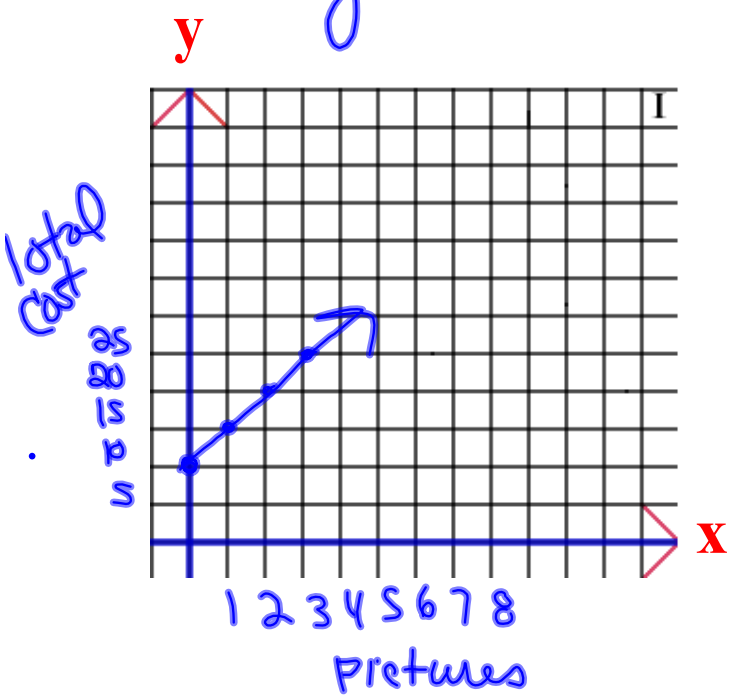
A photographer charges a sitting fee of $10 and $5 for every photograph ordered.

5

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

Graph

$y = 5x + 10$



Equation

b = 10
m = 5
x = # of photos
y = Total $

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?

$y = 5x + 10$
$35 = 5x + 10$
$25 = 5x$
$\frac{25}{5} = \frac{5x}{5}$
$x = 5$ photos

2. How much would it cost for 8 photographs?

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