

Name: Answers!

Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

$$y = 50x + 300$$

Question 01

Awesome Painters offers painting services at \$50 per hour and an initial fee of \$300.

Beautiful Painters offers painting services at \$75 per hour and an initial fee of \$150.

$$y = 75x + 150$$

Complete the Table

Number of Hours	Cost (\$) with Awesome	Cost (\$) with Beautiful
0	300	150
1	350	225
2	400	300
3	450	375
4	500	450
5	550	525
6	600	600
7	650	675
8	700	750
9	750	825
10	800	900

Part 1. Write a system of equations.

$$y = 50x + 300$$

$$y = 75x + 150$$

Part 2. When will the two cost the same?

Hours: 6

Dollars: 600

Part 3. Explain how to decide who to hire.

if more than 6 hours,
go with **Awesome**
if less than 6 hours,
go with **Beautiful**

Question 02

$$y = 45x + 95$$

Clown-y Clowns rents clowns for parties at \$45 per hour and an initial fee of \$95.

Bobo's Balloons makes balloon animals at \$35 per hour and an initial fee of \$125.

$$y = 35x + 125$$

Complete the Table

Number of Hours	Cost (\$) with Clown-y Clowns	Cost (\$) with Bobo's Balloons
0	95	125
1	140	160
2	185	195
3	230	230
4	275	265
5	320	300

Part 1. Write a system of equations.

$$y = 45x + 95$$

$$y = 35x + 125$$

Part 2. When will the two cost the same?

Hours: 3

Dollars: 230

Part 3. Explain how to decide who to hire.

if more than 3 hours, go with Bobo's

if less than 3 hours, go with Clown-y Clowns

