

Unit 2 HW 5

Name Key NO WORK

Date _____

Period _____

1. Solve. $-16 + 5x = -7(-6 + 8x) + 3$

$x = 1$

2. Solve. $\frac{4}{5x+3} = \frac{6}{7x-2}$

$x = -13$

3. Simplify. $-16(-8)^2 + 9(-8) + 1174$

78

4. At the grocery store a gallon of milk cost \$4.29 per gallon. How much are you paying per ounce?
Round appropriately.

\$ 0.03 per ounce

5. You have saved \$150. You start a job which earns you \$8 per hour. You work some hours until you reach \$400. Which equation represents this situation? Explain why you chose your answer.

a. $150 + 8 + h = 400$

b. $150 + h = 400$

c. $150h + 8 = 400$

d. $150 + 8h = 400$

have an explanation

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6. It costs \$30 for admission to the carnival. It costs an additional \$1.75 per ride. You were given a \$100 bill to spend. In the equation $1.75x + 30 = 100$, **describe in words** what each part of the expression means in context.

a. 100: budget

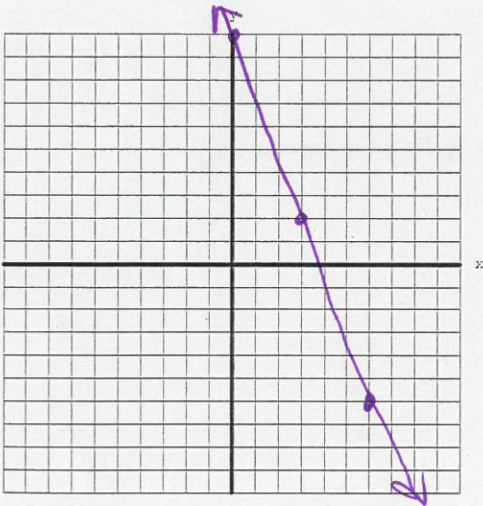
b. 1.75: cost per ride

c. $1.75x$: total cost of all rides

d. 30: cost for admission

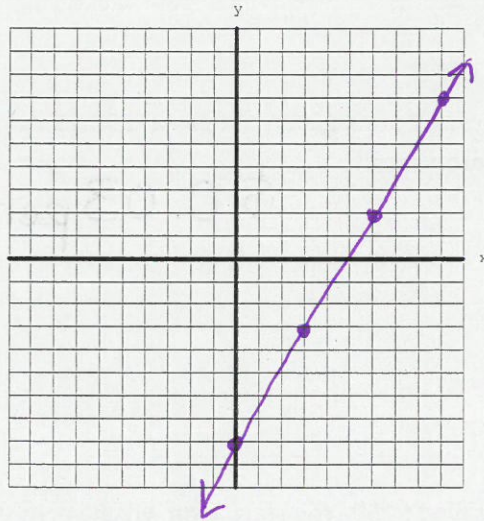
7. Graph.

a. $y = -\frac{8}{3}x + 10$



b. $5x - 3y = 24$

$y = \frac{5}{3}x - 8$



8. Write an equation of a line in slope intercept form.

a. $m = \frac{3}{4}$ $(-10, -9)$

$y = \frac{3}{4}x - 1.5$

OR

$y = \frac{3}{4}x - \frac{3}{2}$

b. $(5, 8)(-3, 4)$

$y = \frac{1}{2}x + 5.5$

OR

$y = \frac{1}{2}x + \frac{11}{2}$