Name _____ **Period** _____ **Date** _____

Interpreting Slope and Y-intercept

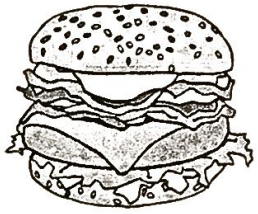
Unit 13 Day 10 Homework

1. The function below shows the cost of a hamburger with different numbers of toppings (t).

$$f(t) = 1.90 + 1.40t$$

y = mx + b ← y-int

↑ slope



a. What is the y-intercept, and what does it mean?

b. What is the slope, and what does it mean?

c. If Jodi paid $3.30 for a hamburger, how many toppings were on Jodi's hamburger?

$3.30 = 1.90 + 1.40t$

2. The function below shows the cost of an ice cream sundae with different numbers of toppings (t).

$$f(t) = 2.25 + 0.75t$$

a. What is the y-intercept, and what does it mean?

2.25 - it is the price of an ice cream sundae with zero toppings.

b. What is the slope, and what does it mean?

c. If Kaye paid $6.00 for a sundae, how many toppings were on Kaye's sundae?

3. The function below shows the cost to attend the fair if you ride r rides.

$$f(r) = 5 + 1.75r$$

a. What is the y-intercept, and what does it mean?

b. What is the slope, and what does it mean?

c. If Al spent $19.00 at the fair, how many rides did Al ride?

4. The graph shows the amount in Colby's savings account over time. What does the y-intercept represent?