

## Algebra I EOC Practice #28

SPI 3102.5.4: Generate the equation of a line that fits linear data and use it to make a prediction.

This chart shows the price of vegetable and fruit platters.

<i>Platter Weight</i>	<i>Price</i>
1 lb.	\$2.10
2 lb.	\$3.60
3 lb.	\$5.10
4 lb.	\$6.60
5 lb.	\$8.10

1. Write an equation for the cost of a platter that weighs  $w$  lbs.

- A.  $P = .60w + 1.50$
- B.  $P = (.60 + 1.50)w$
- C.  $P = 1.50w + .60$
- D.  $P = .60(w + 1.50)$

2. How much would a 6 lb. platter cost?

- A. \$12.20
- B. \$9.60
- C. \$8.70
- D. \$7.50

3. How much would a 10 lb. platter cost?

- A. \$15.00
- B. \$16.50
- C. \$13.50
- D. \$15.60

A phone company charges \$17.50 per month and 12¢ for each additional minute. The chart below shows the cost per 100 minutes.

Additional Minutes	Cost
0	\$17.50
100	\$29.50
200	\$41.50
300	\$53.50
400	\$65.50

4. Write a linear equation for the charge in terms of the number of minutes.

Let  $C$  = charge in dollars

Let  $m$  = # of minutes

- A.  $C = \$17.50 + 12.00m$
- B.  $C = \$17.50m + 100$
- C.  $C = \$17.50 + 0.12m$
- D.  $C = (\$17.50 + 0.12)m$

5. What would be the monthly charge if the customer uses 700 additional minutes?

- A. \$113.50
- B. \$101.50
- C. \$89.50
- D. \$77.50