



Assessments will contain multiple choice, multiple select, gridded response, and technology-enhanced items.

**Multiple Choice**

1. Justin compares bank loans in order to buy a car. The table shows the summaries of the bank loans he is offered.

Bank	Loan
Bank 1	a loan of \$12,000 at a rate of 4.5% compounded monthly
Bank 2	a loan of \$15,000 with a payment of \$500 a month

Which statement *best* describes the loans Justin is being offered by the two banks?

- A Both loans represent linear functions.
  - B Both loans represent exponential functions.
  - C The loan from Bank 1 is linear, while the loan from Bank 2 is exponential.
  - D The loan from Bank 2 is linear, while the loan from Bank 1 is exponential.
2. Consider the expression.

$$x^{1/3}$$

Which is equivalent to the expression?

- A  $\sqrt{3x}$
  - B  $\sqrt{x^3}$
  - C  $\sqrt[3]{x}$
  - D  $\sqrt{\frac{x}{3}}$
3. Ms. Padilla works 5 days per week for 8 hours per day. She works 48 weeks per year. She makes \$45,000 per year.

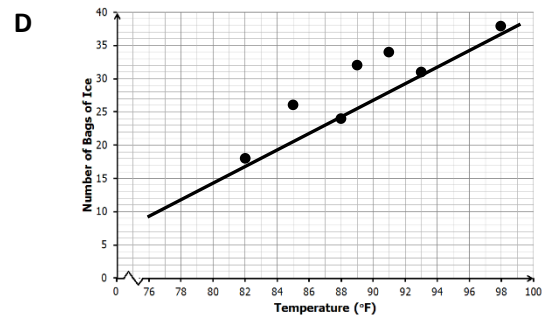
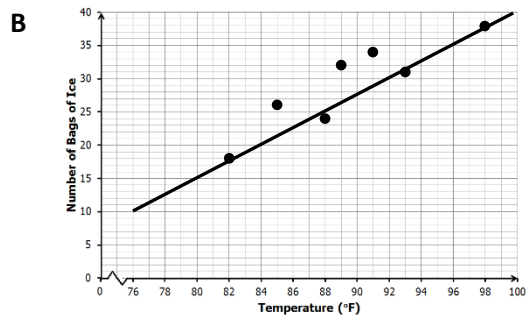
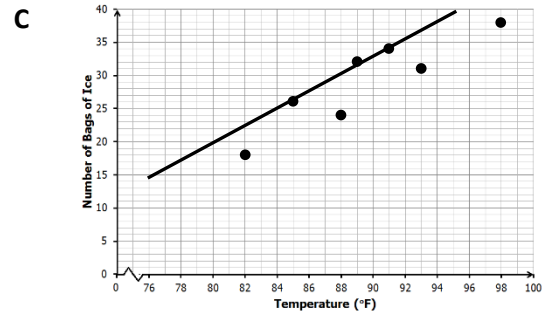
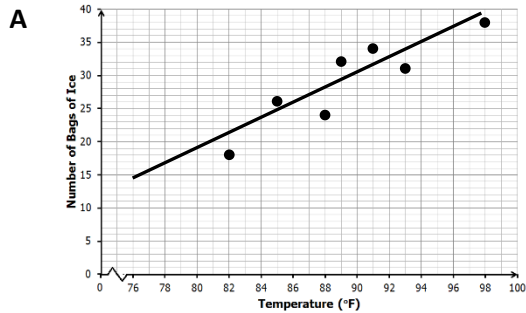
How much does Ms. Padilla earn per hour?

- A \$22.50
- B \$23.44
- C \$36.06
- D \$42.67

4. The table shows the average daily temperature versus the number of bags of ice sold at a convenience store.

Temperature (°F)	82	88	93	98	89	91	85
Number of Bags of Ice Sold	18	24	31	38	32	34	26

Which graph *best* depicts the data and the line-of-best fit?



### Multiple Select

5. Which sets of points represent functions? Select *ALL* that apply.

- A  $\{(-3, 5), (-3, 2), (0, 6), (8, -4)\}$   
 B  $\{(2, 5), (7, 2), (9, -6), (-3, -1)\}$   
 C  $\{(1, -9), (5, -6), (1, 1), (2, 7)\}$   
 D  $\{(-2, 4), (4, 4), (8, 4), (9, 4)\}$   
 E  $\{(3, -5), (3, -3), (3, 2), (3, 7)\}$