

PRACTICE TEST WITH SAMPLE TEST ITEMS

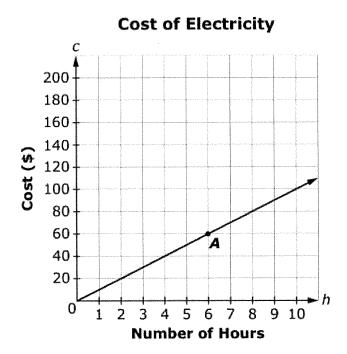
BASED ON GRADE LEVEL STANDARDS

MATH

SEVENTH GRADE

Calculators allowed on following items.

5. This graph shows a proportional relationship between the number of hours (h) a business operates and the total cost (c) of electricity.



Select True or False for each statement about the graph.

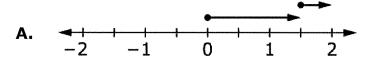
	True	False
Point A represents the total cost of electricity when operating the business for 6 hours.		
The total cost of electricity is \$8 when operating the business for 80 hours.		
The total cost of electricity is \$10 when operating the business for 1 hour.		

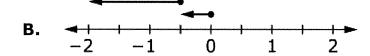
3. George earns \$455 per week. George receives a 20% raise.

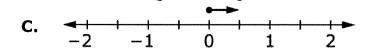
How can George calculate his new weekly pay rate?

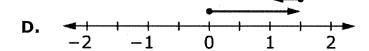
Select all calculations that will result in George's new weekly pay rate.

- ☐ divide \$455 by 0.20
- ☐ divide \$455 by 1.20
- multiply \$455 by 0.20
- ☐ multiply \$455 by 1.20
- solve for x: $\frac{x}{455} = \frac{120}{100}$
- solve for x: $\frac{455}{x} = \frac{20}{100}$
- **4.** Which number line model represents the sum of $1\frac{1}{2} + (-\frac{1}{2})$?









2. A representative sample of 50 students from a high school is surveyed. Each student is asked what science class he or she is taking.

This table shows the responses.

Science Class	Number of Students		
Physics	6		
Chemistry	10		
Biology	18		
Earth Science	4		
Health Science	12		

Select all of the statements that are valid based on the survey results.

About 20% of students at the high school are taking Chemistry.
 About twice as many students are taking Health Science than are taking Physics.
 For every 150 students we could predict that at least 18 of the students are taking Physics.
 For every 25 students we could predict that at least 4 of the

students are taking Earth Science.

No calculators allowed on items 1 to 4.

1. Which number line shows the solution to the inequality

$$-3x - 5 < -2$$
?

