



PRACTICE TEST WITH SAMPLE TEST ITEMS

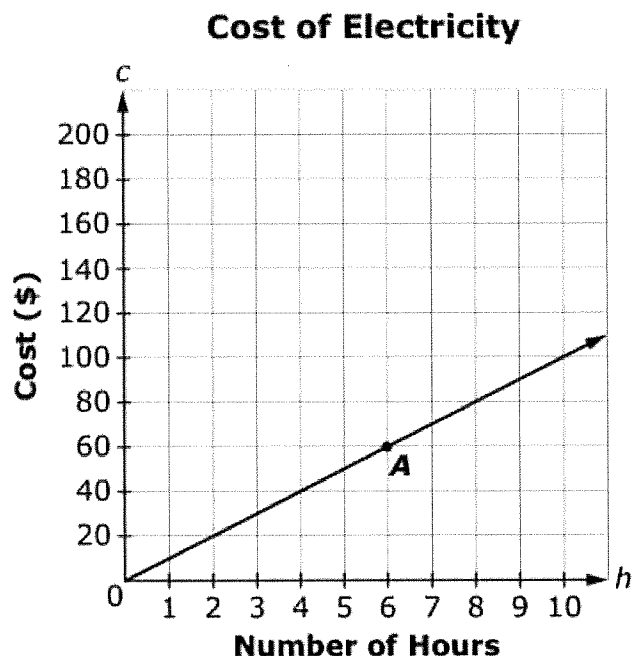
BASED ON GRADE LEVEL STANDARDS

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.	☐	☐

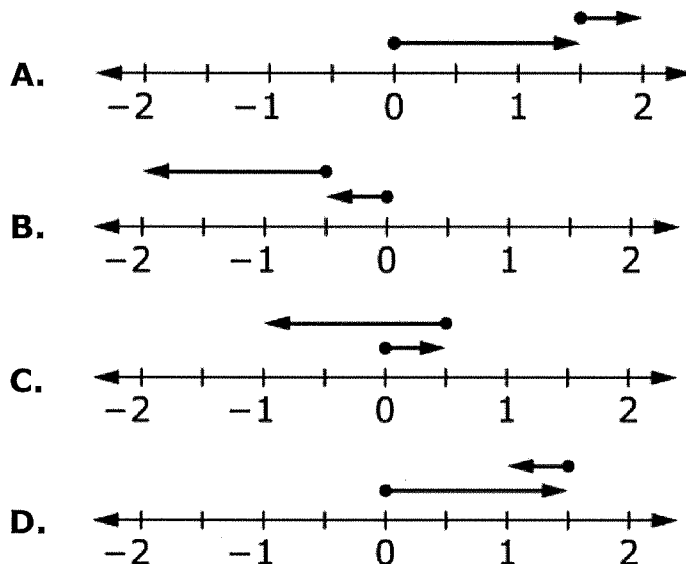
3. George earns \$455 per week. George receives a 20% raise.

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

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

