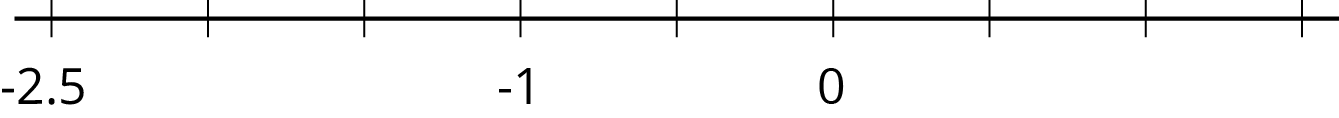
### Lesson 15 Practice Problems

1. Solve.
2. Match each equation to a step that will help solve the equation.
   1. Multiply each side by 5.
   2. Multiply each side by -5.
   3. Multiply each side by .
   4. Multiply each side by .
3. Evaluate each expression if is , is , and is -0.2.

* (From Unit 5, Lesson 13.)
  1. Write an equation where a number is added to a variable, and a solution is -8.
  2. Write an equation where a number is multiplied by a variable, and a solution is .

1. The markings on the number line are evenly spaced. Label the other markings on the number line.

* 
* (From Unit 5, Lesson 8.)

1. In 2012, James Cameron descended to the bottom of Challenger Deep in the Marianas Trench; the deepest point in the ocean. The vessel he rode in was called DeepSea Challenger.

* Challenger Deep is 35,814 feet deep at its lowest point
  1. DeepSea Challenger’s descent was a change in depth of feet per second. We can use the equation to model this relationship, where is the depth and is the time in seconds that have passed. How many seconds does this model suggest it would take for DeepSea Challenger to reach the bottom?
  2. To end the mission DeepSea Challenger made a one-hour ascent to the surface. How many seconds is this?
  3. The ascent can be modeled by a different proportional relationship . What is the value of k in this case?
* (From Unit 5, Lesson 12.)



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