Lesson 1 Homework Practice
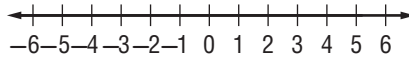
Integers and Graphing

Write an integer for each situation. Explain the meaning of zero in each situation.
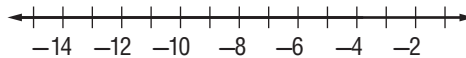
1. a drop of 200 feet

2. an expansion of 3 cubic meters

3. earn 10 points

4. reduce by 8 inches

5. gain 2 pounds

6. a drop of 7 degrees
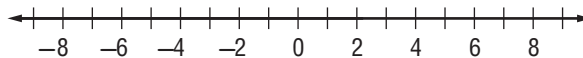
Graph each set of integers on a number line.
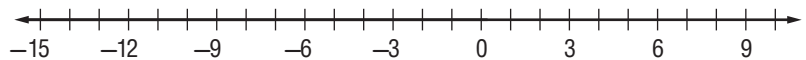
7. {−4, −3, 1, 5}

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←+++++++++++++→
 −6−5−4−3−2−1 0 1 2 3 4 5 6
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8. {−15, −12, −9, −2}

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←+++++++++++++→
 −14  −12  −10  −8  −6  −4  −2
```

9. {8, 3, −7, −5}

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←++++++++++++++++→
 −8  −6  −4  −2  0  2  4  6  8
```

10. {−14, −7, 10, −1}

```
←++++++++++++++++++→
 −15   −12   −9   −6   −3   0   3   6   9
```

11. {−6, −1, 0, 3}

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←+++++++++++++→
 −6−5−4−3−2−1 0 1 2 3 4 5 6
```
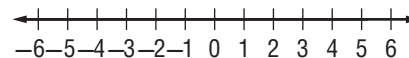
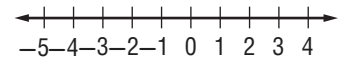**12. BUSINESS** Ms. Solorio's small business had a profit of $460 on Monday. Write an integer to represent this profit.

13. CAVING The end of a cave is 380 meters below the surface of the earth. Write an integer to represent this depth.

14. TEMPERATURES The low temperatures for three consecutive days were −5°F, 3°F, and 4°F. Graph this set of integers on a number line.

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←+++++++++++→
 −5−4−3−2−1 0 1 2 3 4
```

15. ELEVATIONS The lowest elevation in New Orleans, Louisiana, is −8 feet. The lowest elevation in Long Beach, California, is −7 feet. Graph this set of integers on a number line.

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←+++++++++→
 −8−7−6−5−4−3−2−1 0
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