Name: _____ Date: _____

# Rational Numbers in the Real World - Medium

*Write a positive or negative number for each situation. Tell what 0 means.*

1. parking 3 floors below the ground floor
2. parking 5 floors below the ground floor
3. a temperature of 23 degrees below zero
4. losing 13 points in a game
5. 165 feet below sea level
6. losing 16 points in a game

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*Answer each question about the situation.*

7. One diver is at -11 m and another is at -51 m. Which diver is deeper?
8. One diver is at -45 m and another is at -76 m. Which diver is deeper?
9. Morning temperatures: Anchorage -7°F, Fargo -6°F, Denver -10°F, Boston 7°F. Order the cities from coldest to warmest.
10. Ana's account balance is -12 dollars and Ben's is -8 dollars. Who owes more?

Name: _____ Date: _____

# Rational Numbers in the Real World – Medium

*Answer each question about the situation.*

11. Ana's account balance is -30 dollars and Ben's is -25 dollars. Who owes more?

12. Morning temperatures: Anchorage -5°F, Fargo -1°F, Denver 4°F, Boston 2°F. Order the cities from coldest to warmest.

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*Use absolute value to answer each question.*

13. A diver is at -45 ft and a bird is flying at 61 ft. How far apart are they?

14. An account balance of -75 dollars. How much money is owed?

15. The temperature rose from -11°F to 4°F. How many degrees did it rise?

16. A diver is at -19 ft and a bird is flying at 49 ft. How far apart are they?

17. The temperature rose from -6°F to 13°F. How many degrees did it rise?

18. An account balance of -120 dollars. How much money is owed?

19. A diver is at -38 ft and a bird is flying at 8 ft. How far apart are they?

20. An account balance of -40 dollars. How much money is owed?

# Rational Numbers in the Real World – Medium – Answer Key

1. parking 3 floors below the ground floor
   -3; 0 means the ground floor

2. parking 5 floors below the ground floor
   -5; 0 means the ground floor

3. a temperature of 23 degrees below zero
   -23; 0 means 0 degrees

4. losing 13 points in a game
   -13; 0 means no points gained or lost

5. 165 feet below sea level
   -165; 0 means sea level

6. losing 16 points in a game
   -16; 0 means no points gained or lost

7. One diver is at -11 m and another is at -51 m. Which diver is deeper?
   the diver at -51 m, because -51 < -11

8. One diver is at -45 m and another is at -76 m. Which diver is deeper?
   the diver at -76 m, because -76 < -45

9. Morning temperatures: Anchorage -7°F, Fargo -6°F, Denver -10°F, Boston 7°F. Order the cities from coldest to warmest.
   Denver, Anchorage, Fargo, Boston

10. Ana's account balance is -12 dollars and Ben's is -8 dollars. Who owes more?
    Ana: -12 < -8, so the debt is $12

# Rational Numbers in the Real World – Medium – Answer Key

11. Ana's account balance is -30 dollars and Ben's is -25 dollars. Who owes more?

    Ana: -30 < -25, so the debt is $30

12. Morning temperatures: Anchorage -5°F, Fargo -1°F, Denver 4°F, Boston 2°F. Order the cities from coldest to warmest.

    Anchorage, Fargo, Boston, Denver

13. A diver is at -45 ft and a bird is flying at 61 ft. How far apart are they?

    |-45| + |61| = 45 + 61 = 106 ft

14. An account balance of -75 dollars. How much money is owed?

    |-75| = 75, so $75 is owed

15. The temperature rose from -11°F to 4°F. How many degrees did it rise?

    4 - (-11) = 15 degrees

16. A diver is at -19 ft and a bird is flying at 49 ft. How far apart are they?

    |-19| + |49| = 19 + 49 = 68 ft

17. The temperature rose from -6°F to 13°F. How many degrees did it rise?

    13 - (-6) = 19 degrees

18. An account balance of -120 dollars. How much money is owed?

    |-120| = 120, so $120 is owed

19. A diver is at -38 ft and a bird is flying at 8 ft. How far apart are they?

    |-38| + |8| = 38 + 8 = 46 ft

20. An account balance of -40 dollars. How much money is owed?

    |-40| = 40, so $40 is owed