Starter

Solve.

1. $1.4 - 6.5 =$

2. $-\frac{2}{5} - \frac{4}{5} =$

3. $\frac{1}{6} - \frac{5}{12} =$

4. $-\frac{2}{11} - \frac{2}{16} =$

5. $7.5 - 6.4 =$

6. $-\frac{3}{5} - \frac{3}{10} =$

7. $-9.1 - 2.9 =$

8. $\frac{8}{9} - \frac{2}{3} =$

9. $-2\frac{4}{5} - 4\frac{2}{5} =$

10. $-1\frac{2}{3} - 3\frac{1}{6} =$

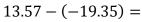11. $-2.2 - 2.2 =$

12. $\frac{9}{12} - \frac{1}{6} =$

13. $-\frac{1}{10} - \frac{4}{5} =$

14. $\frac{4}{5} - \left(-\frac{2}{7}\right) =$

15. Decide if the expression describes a difference that is positive, negative or zero, $-\frac{1}{4} - \left(-\frac{3}{8}\right)$.

16. Your friend says that the value of the expression below is -5.78. What is the correct value? What mistake did your friend likely make?

$$13.57 - (-19.35) =$$

4.6 Practice

Find the difference between the numbers on the number line, and then write an expression to represent the distance on the number line.

1. 3.1 and 7.4

2. -401 and 288

3. 4.5 and 12.5

4. -110 and 110

5. -243 and 1

6. 2.25 and 26.75

7. -1.5 and 19.5

8. 104 and 719

9. -23 and 78

10. You and a friend are rock climbing, you are 14.6 feet above the ground and your friend is 50.3 feet above the ground, how far apart are they?

11. Imagine an airport where planes are landing and taking off. There are two planes, United and American Airlines, that have just taken off, United climbs to 4,300 feet above the ground, American Airlines climbs to 15,200 feet above the ground. How far apart are they? Two more planes, Delta and Jet Blue, are about to come into to land, Delta is 15,200 feet above the ground and Jet Blue is 4,300 feet above the ground. How far apart are they? Write two different equations for finding the two distances. Explain why the answers are alike or different.

12. Suppose you are standing on a pier that is 4 feet above the water, there is an eel below you that is 9 feet under the water, what is the distance between you and the eel? How would this distance change if you were on the surface of the water? Explain.