

# ARCHIMEDEAN MIDDLE CONSERVATORY

## 5.3 Class Assignment

1. The amount of water in a pool changes by  $-0.02$  gallon per hour.

a. Find the amount of change in one day.

b. Find the amount of change in one week.

Find the distance between the two numbers on a number line.

2.  $-\frac{3}{10}$  and  $\frac{5}{8}$

3.  $-10.86$  and  $-4.52$

4.  $2\frac{1}{2}$  and  $8\frac{3}{4}$

5. The profit of a company each year is shown in the table in millions of dollars. Find the total amount of profit.

Year	2016	2017	2018	2019	2020
Profit	-3.1	-1.9	0.8	1.8	5.5

Find the sum or the difference. Write fractions in simplest form.

6.  $-14 + (-9)$

7.  $25 - 34$

8.  $-5.9 + 4.6$

9.  $8.2 - 9.7$

10.  $-\frac{9}{10} + \left(-\frac{7}{10}\right)$

11.  $-\frac{7}{8} - \left(-\frac{3}{8}\right)$

12.  $-2\frac{2}{3} + 1\frac{1}{2}$

13.  $-3\frac{5}{6} - 1\frac{1}{6}$

14. A 12.5-gallon gasoline tank is  $\frac{1}{5}$  full. Find the number of gallons to fill the tank.

15. A submarine was at  $-210.8$  feet and descended to  $-415.3$  feet. Find the distance the submarine traveled.

16. A power walker walks at a rate of 4.64 miles per hour. How many miles are walked in 1.5 hours?

**Find the product. Write fractions in simplest form.**

17.  $-7 \cdot 12$

18.  $(-8)^2$

19.  $0\left(-\frac{20}{3}\right)$

20.  $-\frac{1}{2}\left(-\frac{2}{3}\right)$

21.  $4\left(-1\frac{2}{9}\right)$

22.  $\left(5\frac{1}{2}\right)\left(-2\frac{2}{3}\right)$

23.  $0.3 \times (-0.05)$

24.  $(-0.2)(-0.7)$

25. A bank account has a balance of  $-\$28.40$ . You deposit  $\$58.70$  and then make a payment of  $\$36.90$ . Find the balance on the account.

**Evaluate the expression. Write fractions in simplest form.**

26.  $17 + (-19) + (-8)$

27.  $-12.1 + (-14.3) + 9$

28.  $9\frac{1}{5} + \left(-6\frac{3}{5}\right) + 1\frac{1}{10}$