

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