

# ARCHIMEDEAN MIDDLE CONSERVATORY

## 5.2 Class Assignment

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

1.  $-18 - 41$

2.  $-20 + 8$

3.  $\frac{4}{5} - \frac{9}{10}$

4.  $-\frac{3}{4} + \frac{3}{16}$

5.  $-6 - 3.5$

6.  $-3.94 + 7.23$

7.  $4 - 2\frac{2}{3}$

8.  $-3\frac{1}{2} + \left(-4\frac{3}{4}\right)$

Find the quotient, if possible.

9.  $0 \div (-12)$

10.  $\frac{-84}{-7}$

11.  $\frac{|-56|}{-8}$

12.  $(-48) \div (-16)$

13. For one month, you have 2 deposits of \$1000. You have the following withdrawals during the month. Four bills at \$75 each, 4 trips to the grocery store at \$150 each, rent for \$750, and miscellaneous expenses for \$350. What is amount left at the end of the month?

14. The table shows the change in height for a river over the course of 4 days. Find the total change in height of the river in feet.

Day	1	2	3	4
Change	$-\frac{1}{5}$	$1\frac{1}{4}$	$-\frac{1}{2}$	$-\frac{3}{5}$

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

15. 3.6 and 8.1

16.  $-7.3$  and  $9.2$

17.  $-\frac{5}{12}$  and  $\frac{11}{12}$

Evaluate the expression. Write fractions in simplest form.

18.  $20 + 18 + (-16)$

19.  $-9.3 + 3.7 + 8.8$

20.  $\frac{3}{4} + \frac{1}{4} + \left(-\frac{7}{8}\right)$

21. You had 16 points in a game. You then lost 34 points. Find your current point total.

**Evaluate the expression.**

**22.**  $-7 - 4^2$

**23.**  $9 - 2^2(-3)$

**24.**  $16 - 7(8 - 4) + 3$

**25.**  $\frac{-4^2 + 3}{13}$

**26.**  $-3(4 - 6)^2 + 12$

**27.** A container of milk contains  $90\frac{1}{2}$  fluid ounces. You drink  $6\frac{3}{4}$  fluid ounces of milk every morning and  $8\frac{1}{2}$  fluid ounces every evening. How much is remaining after 3 days?

**Write the distance between the points in the coordinate plane.**

**28.**  $(-8, -3.6), (-8, 8.1)$

**29.**  $(-3\frac{3}{5}, 6), (-\frac{1}{10}, 6)$