

ARCHIMEDEAN MIDDLE CONSERVATORY

5.1 Class Assignment

1. You earn 100 points for a winning hand in a card game. You lose points for every card in your hand. Find your total score after each event.

a. You win 2 hands.

b. You lose the next 4 hands. The table shows the cards you had left.

Card Value	1	2	3	4	5	6	7	8	9
Number of Cards	5	8	1	2	8	4	0	2	3

Find the sum. Write fractions in simplest form.

2. $6 + (-12)$ 3. $-7.3 + 1.85$ 4. $\frac{2}{9} + \left(-\frac{8}{9}\right)$ 5. $-3\frac{3}{5} + 4\frac{1}{5}$

Evaluate the expression. Write fractions in simplest form.

6. $-41 + 29 + 16$ 7. $18.75 + 12.25 + 19.5$ 8. $-4\frac{1}{2} + 5\frac{1}{8} + \left(-3\frac{3}{8}\right)$

Find the product or the quotient, if possible.

9. $(-50) \div (-10)$ 10. $\frac{|-32|}{-8}$ 11. $3(-8)$ 12. $(-5)7(-2)0$

13. Your bank account balance is $-\$10.45$. You deposit $\$26.80$. Find the new account balance.

Find the sum. Write fractions in simplest form.

14. $(-16) + (-25)$ 15. $-8.1 + (-9.7)$ 16. $-\frac{1}{12} + \frac{11}{12}$ 17. $5\frac{1}{10} + \left(-3\frac{2}{5}\right)$

18. A plane descends 500 feet per minute. What is the altitude change of the plane, as an integer, after 7 minutes?

19. The change in temperature was recorded at 5 different times of the day. The values are shown in the table.
What is the mean hourly change in temperature?

Time	Change
6:00 A.M.	-2°C
9:00 A.M.	1°C
Noon	5°C
3:00 P.M.	4°C
6:00 P.M.	-5°C

Evaluate the expression.

20. $-10 + 3^3$

21. $15 - (-2)^4$

22. $-2(6 - 10) + 5$

23. $\frac{4^2 - 5^2}{-3}$

24. $6^2 - 3(4 - 5) + 8$