Unit 1 Challenge Club:

Whole & Decimal Numbers

1. What number is multiplied by the above number to get a product of 198.7783?

2. In the above number, the "7" place value is how many times larger than the final "1" place value?

3. If your favorite fudge costs $6.59 a pound, how much would it cost to buy 2 and a quarter pounds of fudge? (Hint: convert the mixed number fraction to a decimal before multiplying.)
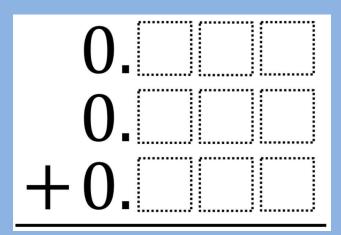
😉

- ○ $15.75
- ○ $10.25
- ○ $14.83

4. If you had 7 half dollars, 13 quarters, 81 dimes, 42 nickels and 9 pennies how much money would you have all together?
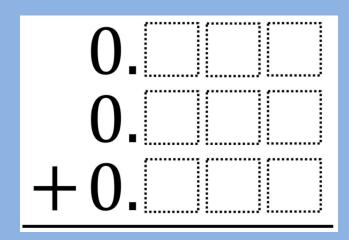
5. The winning football team received $958,394.31. This money was split between 29 players and 1 coach. If the players got 1 share each and the coach got 0.875 shares, how much did each player get? (Hint: Divide the total $$ by the total shares— 29.875 shares.) 😉

6. The high school soccer team bought a case of 48 backpacks for $576.00. They sold 17 of them for $18 each at Medfield Day and the rest were sold during soccer tournaments for $25 each. How much was the team's profit?

7. Use the numbers 1-9, exactly one time each, to sum as close to "1" as possible. Then, use the numbers to sum as close to 0 as possible.

```
   0. ☐ ☐ ☐          0. ☐ ☐ ☐
   0. ☐ ☐ ☐          0. ☐ ☐ ☐
 + 0. ☐ ☐ ☐        + 0. ☐ ☐ ☐
 _____        _____
```

8. Using the numbers 1-9 fill in the boxes to make the smallest number possible.

$$\pm\ \square.\square\square\ +\ \pm\ \square.\square\square$$

9. Using the numbers 1-9 fill in the boxes to make the largest number possible.

$$\pm\ \square.\square\square\ +\ \pm\ \square.\square\square$$

10. Six piles of marbles are arranged in a triangle pattern. Each side of the triangle has a total of 9 marbles. Add 1 more marble to one of the piles, so that the total number of marbles on each side remains 9. You are allowed to move the marbles but not take any out.