

Unit Test

Accentuate the Negative

- Rewrite these numbers in order from smallest to largest.
 $\frac{2}{5}$, 0 , $-\frac{3}{2}$, $-\frac{9}{8}$, $-\frac{8}{7}$
- Find these sums and differences.
 - $30 - -17 =$
 - $-17 - -30 =$
 - $-150 + 75 =$
 - $15 - 27 =$
 - $-14 + -15 =$
 - $\frac{3}{4} + -\frac{1}{2} =$

- Robert wrote $9 \times -6 - (-1 + 8)$. What is the answer to Robert's calculations?
- Write two subtraction sentences to complete the fact family for $-8 + n = 62$.

- Use one of the fact family sentences to find the value of n .

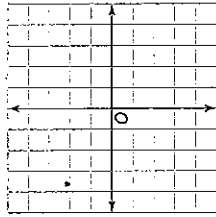
- Find these products and quotients.

- $13 \times -7 =$
- $-8 \times -20 =$
- $99 \div -3 =$
- $-\frac{36}{-12} =$
- $0 \div 18 =$
- $\frac{1}{3} \times -\frac{5}{7} =$

Unit Test (continued)

Accentuate the Negative

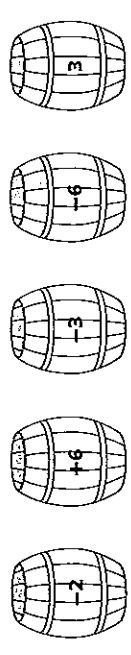
- Maique wants to take four of her friends to a movie. She knows it is \$5.50 for a ticket and \$3.25 for popcorn.
 - How much will it cost if she pays for the movie and popcorn for all five people?
 - Write a number sentence to show how you computed the total cost.
 - Find a different way to calculate the total cost and show it in a number sentence.
- Insert = or \neq to make the statements true.
 - $11 + -20 \square -20 + 11$
 - $12 - -10 \square -10 - 12$
 - $-5 \times 2 \square 2 \times -5$
 - $-16 \div -4 \square -4 \div -16$
- Plot the following points on the grid and label each point.
 - $(1, -5)$
 - $(2, 0)$
 - $(-3, 5)$
 - $(0, -2)$
 - $(-2, -2)$



Unit Test (continued)

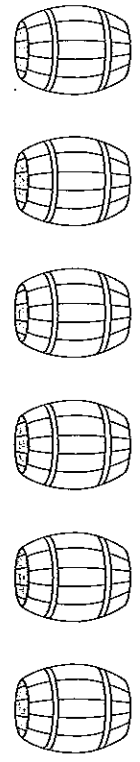
In the fifteenth century, European flour merchants used positive and negative numbers. If the merchants wrote +5 on a flour barrel, it meant that the barrel was 5 pounds overweight; -5 meant that a barrel was 5 pounds underweight.

1. Suppose five 100-pound flour barrels are labeled as shown below.

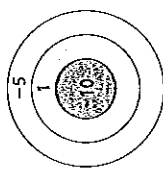


- a. Do the five barrels contain more or less than 500 pounds altogether?
 - b. How much more or less?
2. Suppose these numbers are on eight 100-pound barrels:
 -6 -8 $+7$ $+2$ -10 $+6$ $+3$ $+1$
- a. Do the barrels contain more or less than 800 pounds altogether?
 - b. How much more or less?

3. The drawings below show six 100-pound barrels. The total weight in the barrels is 11 pounds under 600 pounds. Suppose each barrel is marked with a different number. Show a way that the barrels could be marked. Keep your numbers between -10 and $+10$.



4. Terri made up a game of darts for a party. To play the game, you throw three darts at the board and then total your points. The highest score wins. List all possible scores for three darts if all three hit the target.



Unit Test (continued)

9. The list below gives monthly average low temperatures (in degrees Fahrenheit) for International Falls, Minnesota from November through March.

Average Low Temperatures (°F) in International Falls, Minnesota

November	December	January	February	March
17	0	-9	-3	10

- a. What is the mean of these monthly low temperatures? Show your work.
- b. What is the difference between the highest and lowest temperatures?