$\qquad$ Date $\qquad$ Class $\qquad$

## Additional Practice

1. An amount paid to a business for goods or services is a credit, and an amount the business pays for goods, services, or debts is a debit. The chart below shows the total monthly credits and debits for the student store for the first six months of the school year.

a. What is the total of the credits for September through February?
b. What is the total of the debits for September through February?
c. Did the store make or lose money over this time period? Explain your reasoning.
d. Adding the credits and debits gives the profit or loss for a given period of time. Tell which months the store showed a loss and which months the store showed a profit. Explain.

For Exercises 2-4, explain how you could use chips and a chip board to find the difference. Then, find the difference.
2. $-8-5$
3. $3-9$
4. $-6--12$
$\qquad$
$\qquad$ Class $\qquad$

## Additional Practice (continued)

## Write both an addition sentence and a subtraction sentence to represent what is

 shown on the number line.5. 


6.

7. A chip board has 10 red chips and 10 black chips.
a. What value is represented by this board?
b. If 2 red chips and 2 black chips are removed, what value do the remaining chips represent?
c. If 20 red chips and 20 black chips are added, what value do the chips represent?

Find the missing value.
8.
$\square+5=7$
9. $5+\square=-3$
10. $\square+-3=-9$
11. $7-\square=3$
12. $\square-10=-6$
13. $7-\square=12$
14. $-6-\square=7$
15. $-3.4-\square=-5.6$
16. $\frac{2}{3}-\square=1$
17. $\square-12=-5$
18. $-4.5-\frac{9}{2}=\square$
19. $3 \frac{2}{5}+\square=\frac{2}{5}$
20. $\square+7.6=3 \frac{3}{5}$
21. $\qquad$ $--7.8=0$
22. $\square+\frac{-93}{10}=10$
$\qquad$ Date $\qquad$ Class $\qquad$
23. Decide whether the statement is always true, sometimes true, or always false. Explain your reasoning.
a. If a positive integer is subtracted from a negative integer, the difference is a negative integer.
b. If a positive integer is subtracted from a positive integer, the difference is a positive integer.
24. Write a complete fact family for each of the following:
a. $-5++2=-3$
b. $-4+-6=-10$
b. ${ }^{+} 0.7+{ }^{+} 0.3=+1.0$
d. $-3.1+-1.1=-4.4$
25. Chris said that the fact family for $-2++7=+5$ should have facts:
$-2++7=+5$
$+5--2=+7$ and
$+5-+7=-2$

$$
+5=-2++7
$$

Do you agree? Explain.
$\qquad$ Date $\qquad$ Class $\qquad$

## Additional Practice (continued)

For Exercises 26-30, show the addition on a number line, and give the sum.
26. $+8+-8$
27. $-2+-5+-4$
28. $+8+-9+-2$
29. $-8++8+-3$
30. $-10++5++4+1$

For Exercises 31-34, write the addition sentence illustrated by each figure.
31.

32.

33.

34.

35. Bill said that ${ }^{-7}-+4$ and $+7+-10$ both represent the same number.
a. Draw a chip board to represent each combination.
b. Do both combinations of chips represent the same number? Explain your reasoning.
$\qquad$ Date $\qquad$ Class $\qquad$
36. Tell which one of the following sums is different from the others, and explain your reasoning: $-3+{ }^{+} 5,{ }^{+} 8+{ }^{-} 5,{ }^{+} 7+{ }^{-} 5$, and ${ }^{+} 12+{ }^{-} 10$.
37. On Friday, Anessa has $\$ 5$. Over the weekend, she buys a granola bar for $\$ 0.75$, sees a movie for $\$ 3.50$, gets $\$ 2$ from her brother who is repaying a loan, and then spends $\$ 1.25$ at the arcade. How much money does Anessa have at the end of the weekend?
38. Scientists sometimes use a temperature scale called the Kelvin scale. The relationship between the Kelvin temperature scale and the Celsius temperature scale is expressed by the equation $\mathrm{K}=\mathrm{C}+273$ where K is degrees Kelvin and C is degrees Celsius.
a. What is $-45^{\circ} \mathrm{C}$ in degrees Kelvin?
b. What is $71^{\circ} \mathrm{K}$ in degrees Celsius?
c. If the temperature of a substance ranges from $102^{\circ} \mathrm{K}$ to $230^{\circ} \mathrm{K}$, what is the temperature range in degrees Celsius?

