

1. Suppose you have \$250 of debt on a credit card. If you made a payment of (i.e. credit the card for) \$125, what would the balance be on your card?

$$-250 + 125 = -125$$

add \$125
of credit

$$\boxed{-\$125}$$

$$\begin{array}{r} 250 \\ -125 \\ \hline 125 \end{array}$$

2. Evaluate each of the following:

$$1 + (-13) = \boxed{-12}$$

$$-7 + 4 = \boxed{-3}$$

$$-10 + 28 = \boxed{18}$$

$$-23 + (-10) = \boxed{-33}$$

$$14 + (-15) = \boxed{-1}$$

$$\begin{aligned} -2 + 15 + (-18) + (-3) + 24 &= 15 + 24 + (-2) + (-18) + (-3) \\ &= 39 + (-23) \\ &= \boxed{16} \end{aligned}$$

$$\begin{array}{r} 39 \\ -23 \\ \hline 16 \end{array}$$

3. Suppose Vanessa's February credit card balance is $-\$1200$. In February, she made a payment of \$400, and another of \$350. She had \$20 of finance charges, and purchased a textbook for \$70 and a scientific calculator for \$15. What is her February closing balance?

$$\begin{aligned} & -1200 + 400 + 350 + (-20) + (-70) + (-15) \\ &= 400 + 350 + (-1200) + (-20) + (-70) + (-15) \\ &= 750 + (-1200) + (-105) \\ &= 750 + (-1305) \\ &= -555 \end{aligned}$$

$$\begin{array}{r} 1305 \\ -750 \\ \hline 555 \end{array}$$

$$\boxed{-\$555}$$

4. Suppose it is 16°C in the Math 50 classroom. For some strange reason, the temperature drops by 20°C . What is the temperature now?

$$16 + (-20) = -4$$
$$\boxed{-4^{\circ}\text{C}}$$

Now suppose that the temperature drops by another 20°C . What is the temperature now?

$$-4 + (-20) = -24$$
$$\boxed{-24^{\circ}\text{C}}$$

5. Find the additive inverse of each of the following numbers:

0 $\boxed{0}$

11 $\boxed{-11}$

-99 $\boxed{99}$

Q: What has a head and a tail, but no body?