Questions

1. Find the additive inverse (opposite) of 8.

2. Find the absolute value $|-1.3|$.

3. Add $-6 + (-5)$.

4. Add $-\dfrac{2}{13} + \left(-\dfrac{5}{13}\right)$.

5. Add $-\dfrac{1}{10} + \dfrac{1}{2}$.

6. Add $-\dfrac{2}{3} + \left(-\dfrac{1}{4}\right)$.

7. Add $4 + (-8) + 16$.

8. Aaron owes \$258 to a credit card company. He makes a purchase of \$32 with the card and then makes a payment of \$150. What is his current balance on the credit card?

Solutions

1. -8.

2. $|-1.3| = 1.3$

3. $-6 + (-5) = -11$

4. $-\dfrac{2}{13} + \left(-\dfrac{5}{13}\right) = \dfrac{-2 + (-5)}{13} = \dfrac{-7}{13}$

5. $-\dfrac{1}{10} + \dfrac{1}{2} = \dfrac{-1}{10} + \dfrac{5}{10} = \dfrac{-1+5}{10} = \dfrac{4}{10} = \dfrac{2}{5}$

6. $-\dfrac{2}{3} + \left(-\dfrac{1}{4}\right) = \dfrac{-2}{3} + \dfrac{-1}{4} = \dfrac{-8}{12} + \dfrac{-3}{12} = \dfrac{-8-3}{12} = \dfrac{-11}{12}$.

7. $4 + (-8) + 16 = -4 + 16 = 12$.

8. $\$258 + \$32 - \$150 = \$140$.