Write equations with variables

Grade 5 Word Problems Worksheets

Write equations for the unknowns and solve the equations.

1. The beach is x miles away from home. Josh drove to and from the beach with a total distance of 36 miles. Find x.

2. Emily bought some ice cream cones which cost $24. She paid $$m$ and got back $6 of change. Find m.

3. In the morning, there were t people at the beach. Later at noon, $\frac{2}{7}$ of the people left the beach and there were 30 people left on the beach. Find t.

4. Joshua brought c beach toys to the beach. He shared them with 6 other friends. Each of them got 4 beach toys. Find c.

5. Mariah promised her children they would play on the beach for 90 minutes. After they played for y minutes, she reminded the children that they would be leaving in 15 minutes. Find y.

6. Norah bought 2 bottles of water, each with a capacity of 500ml. After Norah and her sister each drank z ml from the bottles, they have total of 340 ml of water left. Find z.

Answers

1. $2x = 36$
   $x = 18$

2. $m - 24 = 6$
   $m = 30$

3. $\frac{5t}{7} = 30$
   $5t = 210 \quad t = 42$

4. $\frac{c}{7} = 4$
   $c = 28$

5. $15 + y = 90$
   $y = 75$

6. $2(500 - z) = 340$
   $500 - z = 170$
   $z = 330$