



Variables and equations

Grade 3 Word Problems Worksheet

For each question, write an equation with a variable for the unknown amount. Then, solve the equation to answer the question.

1. Karen ordered 21 burgers and 12 drinks. 9 of the burgers were cheeseburgers, and the rest were chicken burgers. How many chicken burgers did she order?
2. Kaye has 15 beads in her bracelet. 4 of the beads are red, 8 of them are green, and the rest are yellow. How many yellow beads are in her bracelet?
3. Ken had 14 chocolate bars and 6 candies. He ate 2 chocolate bars and shared another 4 chocolate bars with his cousin. How many chocolate bars does he have left?





4. In the bakery storage room, there are 12 sacks of flour, 8 sacks of sugar and 6 boxes of margarine. How many sacks are there in the storage room altogether?
5. Jude arranged 25 math books on top of the bookshelf in the library. There were 12 first-grade math books, and the rest were second-grade math books. How many second-grade math books were there?
6. Ben spent 30 minutes playing in his room. He played with his toy car for 12 minutes. He spent the rest of the time playing online games. How much time did he spend playing online games?



Answers

Note: There are several possible correct equations for each problem.

1. $9 + x = 21$
 $x = 12$
She ordered 12 chicken burgers.
2. $4 + 8 + x = 15$ or $15 - 4 - 8 = x$
 $12 + x = 15$
 $x = 3$
There are 3 yellow beads.
3. $x = 14 - 2 - 4$
 $x = 8$
He has 8 chocolate bars left.
4. $x = 12 + 8$
 $x = 20$
There are 20 sacks in the storage room.
5. $12 + x = 25$ or $25 - 12 = x$
 $x = 13$
There were 13 second-grade math books.
6. $12 + x = 30$ or $30 - 12 = x$
 $x = 18$
He spent 18 minutes playing online game.