Write equations with variables

Grade 3 Word Problems Worksheet

1. Joseph has 2 toy cars. The red car is 42 cm long. The green car is 15 cm shorter than the red car. The green car is \( g \) cm long.

2. Henry made \( c \) cookies and 9 chocolate drinks. He ate 12 cookies and gave 15 cookies to his friends. There were 2 cookies left.

3. Jane wants to buy a big stuffed toy for 35 dollars. She has saved 26 dollars. She still needs to save \( d \) dollars to buy the big stuffed toy.
4. There were 15 sets of earphones and 8 cellphone cases displayed in the gadget store window. There were 6 earphones sold yesterday and 7 earphones left displayed in the window.

5. There are 26 vowels and consonants in the alphabet. 5 letters are vowels and c letters are consonants.

6. In a computer shop, there are c computers. There are 12 good working computers being used and 5 good working computers not being used. Another 2 of the computers are defective.
Answers

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

1. \( g + 15 = 42 \) or \( 42 - 15 = g \)
   
   \( g = 27 \)

2. \( c - 12 - 15 = 2 \) or \( 12 + 15 + 2 = c \)
   
   \( c - 27 = 2 \)
   
   \( c = 29 \)

3. \( 26 + d = 35 \) or \( 35 - 26 = d \)
   
   \( d = 9 \)

4. \( 15 - e = 7 \) or \( 15 - 7 = e \)
   
   \( e = 8 \)

5. \( c + 5 = 26 \) or \( 26 - 5 = c \)
   
   \( c = 21 \)

6. \( c = 12 + 5 + 2 \)
   
   \( c = 19 \)