Exercise - Solving Equations

1

$$-11 + x = 9$$

Given the above equation, what is the value of $20 - (11 - x)$?

2

If $33 - a = a + 27 - 5a$, what is the value of $33 + 3a$?

3

If $\frac{1}{2}x + 3 = \frac{3}{4} - x$, what is the value of x?

4

If $x - (3 - 2x) + (4 - 5x) = -7$, what is the value of x?

5

If three quarters of a number decreased by twenty is equal to eighty two, what is that number?

6

Two and three fifths of a number equals -26. What is the number?

A) -15

B) -10

C) -5

D)   10

7

There are one hundred forty-two students in a high school band. These students represent two ninth of the total students in the high school. How many students attend the school?

A) 587

B) 613

C) 639

D) 665

8

$$820c + 380r = 4,360$$

The above equation models the amount of calories in a snack of c cups of cashews and r cups of raisins. The amount of calories per cup of cashews is 820 and the amount of calories per cup of raisins is 380. According to the equation, how many cups of raisins are used, if 3 cups of cashews are used to make the snack?

A) 3

B) 4

C) 5

D) 6