Variables Worksheet Answer Key

More x's and y's Than a Bucket of Chromosomes

Express the following statements as algebraic expressions.

1. The temperature T fell by 10°F. What is the current temperature?

 $(T-10)^{\circ}$ F

2. Bill is 2 years older than his brother Harry, who is A years old. How old is Bill?

(A+2) years

3. A cake weighing w lbs is divided into 8 pieces. What is the weight of each piece?

 $\frac{w}{8}$ lbs

4. What is four less than thrice a number x?

3x - 4

5. Jim can run 3 miles in half an hour. How many miles can he cover in t minutes?

 $\frac{3}{30}t = 0.1t$ miles

6. If Jane got 10 out of p problems wrong, how many did she get right?

(p-10) problems

7. Bob has gained $15\frac{1}{2}$ pounds in one month and weighs x lbs now. How much did Bob weigh last month?

 $(x - 15\frac{1}{2})$ lbs

8. There are b boys in a class of 30 students. How many girls are there?

(30-b) girls

9. What is three more than half of a number n?

 $3 + \frac{1}{2}n$

10. Sarah spent 40 minutes more on the bicycle than she did on the Stairmaster. If she spent s mins on the Stairmaster, how long was she on the bicycle?

(s+40) mins

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