Identifying Independent and Dependent Variables

Identify the independent and dependent variables in each problem.

1. The number of students in a class, *s*, and the number of desks needed, *d*

   Independent variable: **s**   Dependent variable: **d**

2. The number of candles on a birthday cake, *c*, and that person's age, *a*

   Independent variable: **a**   Dependent variable: **c**

3. The height of a sunflower in inches, *h*, and the number of days since it was planted, *d*

   Independent variable: **d**   Dependent variable: **h**

4. The number of gallons of paint needed, *g*, and the size of a room in square feet, *s*

   Independent variable: **s**   Dependent variable: **g**

5. The number of eggs Dairus has, *e*, and the number of batches of muffins he can bake, *b*

   Independent variable: **e**   Dependent variable: **b**

6. The amount of money Isabella earns, *m*, and the number of hours she works, *h*

   Independent variable: **h**   Dependent variable: **m**

7. The number of T-shirts a basketball team orders, *t*, and the number of players on the team, *p*

   Independent variable: **p**   Dependent variable: **t**

8. The number of miles Terrance has driven, *m*, and the amount of gas he has used, *g*

   Independent variable: **m**   Dependent variable: **g**