

Name: \_\_\_\_\_

## Variable Quiz

|                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Circle the variable:</p> <p style="text-align: center;"><math>5m+31=198</math></p>                                                                                                                                                                                                                                                                                          | <p>2. Define a variable:</p> <p>_____</p> <p>_____</p>                                                                                                                                                                                                                                                                                                                   |
| <p>3. Which variable expression represents the following: How many cards are in a set of baseball cards if the set plus eight more equals 62 cards, where <math>p</math> stands for the number of baseball cards?</p> <p>a. <math>p - 8 = 62</math>                      b. <math>p/62 = 8</math><br/>c. <math>p + 8 = 62</math>                      d. <math>8p = 62</math></p> | <p>4. Write the statement as a variable expression.</p> <p style="text-align: center;">A number, <math>h</math>, increased by 37 is 413.</p>                                                                                                                                                                                                                             |
| <p>5. Ashley has a round cake that she has cut into 8 slices. She wants to share the cake with six of her friends. What is the variable in this situation?</p> <p>a. The shape of the cake<br/>b. The amount of slices of cake<br/>c. The flavor of the cake<br/>d. The number of friends she will share with</p>                                                                 | <p>6. Tammy has 96 pencils she is placing into baskets for her class. She places 8 pencils in each basket. Which number sentence shows the number of baskets, <math>b</math>, that she will need?</p> <p>a. <math>b - 8 = 96</math>                      b. <math>96 + 8 = b</math><br/>c. <math>8b = 96</math>                        d. <math>96 \div 8 = b</math></p> |
| <p>7. Which equation represents "a number, <math>a</math>, decreased by 36 is 248"?</p> <p>a. <math>a + 36 = 248</math><br/>b. <math>z - 36 = 248</math><br/>c. <math>36 - z = 248</math><br/>d. <math>36 \div z = 248</math></p>                                                                                                                                                 | <p>8. Write the statement as a variable expression.</p> <p style="text-align: center;">Ten less than a number, <math>r</math>.</p>                                                                                                                                                                                                                                       |
| <p>9. Solve for the variable.</p> <p style="text-align: center;"><math>7c = 35</math></p> <p style="text-align: center;"><math>c =</math> _____</p>                                                                                                                                                                                                                               | <p>10. Write the statement as a variable expression.</p> <p style="text-align: center;">What is the product of <math>y</math> and 10?</p>                                                                                                                                                                                                                                |

|  |  |
|--|--|
|  |  |
|--|--|