

# Lesson 17: Write Expressions in Which Letters Stand for Numbers

## Classwork

### Exercises

|               |   |
|---------------|---|
| Station One   | 1. The sum of $a$ and $b$<br>$a + b$  |
|               | 2. Five more than twice a number $c$<br>$5 + 2c$ or $2c + 5$  |
|               | 3. Martha bought $d$ number of apples and then ate 6 of them.<br>$d - 6$  |
| Station Two   | 1. 14 decreased by $p$<br>$14 - p$  |
|               | 2. The total of $d$ and $f$ , divided by 8<br>$\frac{d+f}{8}$ or $(d+f) \div 8$   |
|               | 3. Rashod scored 6 less than 3 times as many baskets as Mike. Mike scored $b$ baskets.<br>$3b - 6$  |
| Station Three | 1. The quotient of $c$ and 6<br>$\frac{c}{6}$   |
|               | 2. Triple the sum of $x$ and 17<br>$3(x + 17)$  |
|               | 3. Gabrielle had $b$ buttons but then lost 6. Gabrielle took the remaining buttons and split them equally among her 5 friends.<br>$\frac{b-6}{5}$ or $(b-6) \div 5$ |

|                 |   |
|-----------------|---|
| Station<br>Four | 1. $d$ doubled<br>$2d$  |
|                 | 2. Three more than 4 times a number $x$<br>$4x+3$ or $3+4x$   |
|                 | 3. Mali has $c$ pieces of candy. She doubles the amount of candy she has and then gives away 15 pieces.<br>$2c-15$  |
| Station<br>Five | 1. $f$ cubed<br>$f^3$   |
|                 | 2. The quantity of 4 increased by $a$ , and then the sum is divided by 9.<br>$\frac{4+a}{9}$ or $(4+a) \div 9$  |
|                 | 3. Tai earned 4 points fewer than double Oden's points. Oden earned $p$ points.<br>$2p-4$   |
| Station<br>Six  | 1. The difference between $d$ and 8<br>$d-8$  |
|                 | 2. 6 less than the sum of $d$ and 9<br>$(d+9)-6$  |
|                 | 3. Adalyn has $x$ pants and $s$ shirts. She combined them and sold half of them. How many items did Adalyn sell?<br>$\frac{x+s}{2}$ or $\frac{1}{2}(x+s)$ |