Lesson 17: Write Expressions in Which Letters Stand for Numbers

Classwork

Exercises

|  |  |
| --- | --- |
| **Station One** | 1. The sum of $a$ and $b$.
 |
| 1. Five more than twice a number $c$.
 |
| 1. Martha bought $d$ number of apples and then ate $6$ of them.
 |
| **Station Two** | 1. $14$ decreased by $p$.
 |
| 1. The total of $d$ and $f$, divided by $8$.
 |
| 1. Rashod scored $6$ less than $3$ times as many baskets as Mike. Mike scores $b$ baskets.
 |
| **Station Three** | 1. The quotient of$ c$ and $6$.
 |
| 1. Triple the sum of $x$ and $17$.
 |
| 1. Gabrielle had $b$ buttons but then lost $6$. Gabrielle took the remaining buttons and split them equally among her $5 $friends.
 |
| **Station Four** | 1. $d$ doubled.
 |
| 1. Three more than $4$ times a number $x$.
 |
| 1. Mali has $c$ pieces of candy. She doubles the amount of candy she has then gives away $15$ pieces.
 |
| **Station Five** | 1. $f$ cubed.
 |
| 1. The quantity of $4$ increased by $a$, and then the sum is divided by $9$.
 |
| 1. Tai earned $4$ points fewer than double Oden’s points. Oden earned $p$ points.
 |
| **Station Six** | 1. The difference between $d$ and $8$.
 |
| 1. $6$ less than the sum of $d$ and $9$.

  |
| 1. Adalyn has $x$ pants and $s $shirts. She combined them and sold half of them. How many items did Adalyn sell?
 |

Problem Set

Write an expression using letters and/or numbers for each problem below.

1. $4$ less than the quantity of $8$ times $n$.
2. $6$ times the sum of $y$ and $11$.
3. The square of $m$ reduced by $49$.
4. The quotient when the quantity of $17$ plus $p$ is divided by $8$.
5. Jim earned $j$ in tips, and Steve earned $s$ in tips. They combine their tips then split them equally.
6. Owen has $c$ collector cards. He quadruples the number of cards he has, and then combines them with Ian, who has $i $collector cards.
7. Rae ran $4$ times as many miles as Madison and Aaliyah combined. Madison ran $m$ miles and Aaliyah ran $a$ miles.
8. By using coupons, Mary Jo was able to decrease the retail price of her groceries, $g$, by $\$125$.
9. To calculate the area of a triangle, you find the product of the base and height and then divide by $2$.
10. The temperature today was $10$ degrees colder than twice yesterday’s temperature, $t$.