

## Substitution Answer Key

**Instructions:** Evaluate each expression by substituting in the given values.

1. If  $a=6$ ,  $b=8$ , then what is  $3ab$ ?

**144**

2. If  $a=-3$ ,  $b=2$ , then what is  $3a+3b$ ?

**-3**

3. If  $a=-6$ ,  $b=5$ , then what is  $-\frac{10a}{b}$ ?

**12**

4. If  $r=0$ ,  $s=4$ ,  $t=2$ , then what is  $2r+s+2t$ ?

**8**

5. If  $r=1$ ,  $s=2$ ,  $t=3$ , then what is  $4r+\frac{8}{s}+t^2$ ?

**17**

6. If  $r=-4$ ,  $s=\frac{1}{2}$ ,  $t=9$ , then what is  $\frac{3r+t}{s}$ ?

**-6**

7. If  $r=\frac{1}{4}$ ,  $s=\frac{1}{5}$ ,  $t=\frac{2}{3}$ , then what is  $rst$ ?

**1/30**

8. If  $r=6$ ,  $s=-3$ ,  $t=2$ , then what is  $\frac{2r^2s}{t^2}$ ?

**-54**

9. If  $t=-1$ ,  $u=3$ ,  $v=\frac{2}{5}$ ,  $w=4$ , then what is  $4t^3+2u^2+10v-w$ ?

**14**

10. If  $t=\frac{1}{2}$ ,  $u=\frac{2}{7}$ ,  $v=\frac{3}{4}$ ,  $w=\frac{2}{3}$ , then what is  $\frac{2tuv}{w}$ ?

**9/28**