

# Lesson 1 Homework Practice

## *Algebraic Expressions*

- 1) Show substitution.
- 2) Evaluate.
- 3) Identify your answer.

Evaluate each expression if  $r = 5$ ,  $s = 2$ ,  $t = 7$ , and  $u = 1$ .

1.  $s + 7$

2.  $9 - u$

3.  $3t + 1$

4.  $5r - 4$

5.  $t - s$

6.  $u + r$

7.  $11t - 7$

8.  $6 + 3u$

9.  $4r - 10s$

10.  $3u^2$

11.  $2t^2 - 18$

12.  $r^2 + 8$

13.  $\frac{s}{2}$

14.  $\frac{30}{r}$

15.  $\frac{(3+u)^2}{8}$

Evaluate each expression if  $a = 4.1$ ,  $b = 5.7$ , and  $c = 0.3$ .

16.  $a + b - c$

17.  $10 - (a + b)$

18.  $b - c + 2$

19. **MOON** The expression  $\frac{w}{6}$  gives the weight of an object on the Moon in pounds with a weight of  $w$  pounds on Earth. What is the weight of a space suit on the Moon if the space suit weighs 178.2 pounds on Earth?

20. Complete the table.

Pounds ( $p$ )	Ounces ( $16p$ )
1	16
2	32
3	
4	
5	