

**EXTRA PRACTICE 1.8 VARIABLES AND EXPRESSIONS**

Evaluate each numerical expression.

1.  $30 + 4 \div 2$

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2.  $3 \cdot 4 - 10$

\_\_\_\_\_

3.  $70 - 5 \cdot 6$

\_\_\_\_\_

4.  $12 - 2^2 \cdot 2$

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5.  $18 - (5 + 2)$

\_\_\_\_\_

6.  $50 \div 5 \cdot 3$

\_\_\_\_\_

7.  $15 \div (10 \div 2)$

\_\_\_\_\_

8.  $36 - 20 \div 5$

\_\_\_\_\_

9.  $(6 - 3) \cdot 4^2$

\_\_\_\_\_

10.  $8 \cdot (4 - 2) \cdot 3$

\_\_\_\_\_

11.  $9 \div 3 + 13 - 3$

\_\_\_\_\_

12.  $6 + 4(5 - 8)^2$

\_\_\_\_\_

Evaluate each algebraic expression.

13.  $7a - 5$ , when  $a$  is  $-2$

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14.  $50 - 6c$ , when  $c$  is  $5$

\_\_\_\_\_

15.  $8 + 7x$ , when  $x$  is  $-4$

\_\_\_\_\_

16.  $5t + 7t$ , when  $t$  is  $3$

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17.  $-8(3z - 4)$ , when  $z$  is  $9$

\_\_\_\_\_

18.  $6m - 5m$ , when  $m$  is  $-3$

\_\_\_\_\_

19.  $6x + 6y$ , when  $x$  is  $5$  and  $y$  is  $-3$  \_\_\_\_\_

20.  $r^3 + s^2$ , when  $r$  is  $-2$  and  $s$  is  $-4$  \_\_\_\_\_

Evaluate each expression when  $r$  is  $-5$ ,  $s$  is  $2$ , and  $t$  is  $-4$ .

21.  $rt + s$

\_\_\_\_\_

22.  $rs - st$

\_\_\_\_\_

23.  $rst$

\_\_\_\_\_

24.  $t \div s + rt$

\_\_\_\_\_

25.  $(s + t)^2$

\_\_\_\_\_

26.  $s^2 + t^2$

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