EXTRA PRACTICE   # 1.8 VARIABLES AND EXPRESSIONS

Evaluate each numerical expression.

1. $30 + 4 \div 2$

$\underline{\quad 32 \quad}$

2. $3 \cdot 4 - 10$

$\underline{\quad 2 \quad}$

3. $70 - 5 \cdot 6$

$\underline{\quad 40 \quad}$

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

$\underline{\quad 4 \quad}$

5. $18 - (5 + 2)$

$\underline{\quad 11 \quad}$

6. $50 \div 5 \cdot 3$

$\underline{\quad 30 \quad}$

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

$\underline{\quad 3 \quad}$

8. $36 - 20 \div 5$

$\underline{\quad 32 \quad}$

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

$\underline{\quad 48 \quad}$

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

$\underline{\quad 48 \quad}$

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

$\underline{\quad 13 \quad}$

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

$\underline{\quad 42 \quad}$

Evaluate each algebraic expression.

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

$\underline{\quad -19 \quad}$

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

$\underline{\quad 20 \quad}$

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

$\underline{\quad -20 \quad}$

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

$\underline{\quad 36 \quad}$

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

$\underline{\quad -184 \quad}$

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

$\underline{\quad -3 \quad}$

19. $6x + 6y$, when x is 5 and y is -3 $\underline{\quad 12 \quad}$

20. $r^3 + s^2$, when r is -2 and s is -4 $\underline{\quad 8 \quad}$

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

21. $rt + s$

$\underline{\quad 22 \quad}$

22. $rs - st$

$\underline{\quad -2 \quad}$

23. rst

$\underline{\quad 40 \quad}$

24. $t \div s + rt$

$\underline{\quad 18 \quad}$

25. $(s + t)^2$

$\underline{\quad 4 \quad}$

26. $s^2 + t^2$

$\underline{\quad 20 \quad}$