

H6
A#1 Pg 21 15-26

$$15.) 12 + 2 \cdot 10 \\ 12 + 20 \\ \boxed{32}$$

$$16.) 40 - 12 \div 6 \\ 40 - 2 \\ \boxed{38}$$

$$17.) 7(14-9) \\ 7(5) \\ \boxed{35}$$

$$18.) \frac{28}{7-3} \\ \frac{28}{4} \\ \boxed{7}$$

$$19.) \frac{15-7}{3+1} \\ \frac{8}{4} \\ \boxed{2}$$

$$20.) 16 \div (3^2 - 1) \\ 16 \div (9 - 1) \\ 16 \div 8 \\ \boxed{2}$$

$$21.) \begin{array}{l} 3 \cdot 3 \cdot 3 \cdot 3 \\ 9 \cdot 9 \\ 81 \end{array} \quad \begin{array}{l} 3^4 \div 9 \div 3 \\ 81 \div 9 \div 3 \\ 9 \div 3 \\ \boxed{3} \end{array}$$

$$22.) (8-2)^2 + 12 \div 6 \\ 6^2 + 12 \div 6 \\ 36 + 2 \\ \boxed{38}$$

$$23.) \begin{array}{l} 35 - 15 - 5 + 10 \\ 20 - 5 + 10 \\ 15 + 10 \\ \boxed{25} \end{array}$$

$$24.) \begin{array}{l} 18 \div x - 2 \\ 18 \div 3 - 2 \\ 6 - 2 \\ \boxed{4} \end{array}$$

$$25.) \frac{x+y}{x} \\ \frac{3+6}{3} \\ \frac{9}{3} \boxed{3}$$

$$26.) \begin{array}{l} 4 \div 3 - 4 \\ 4(2)^3 - 6 \\ 4(8) - 6 \\ 32 - 6 \\ \boxed{26} \end{array}$$

Practice

For use with pages 18-23

Evaluate the expression.

$$1. 10 + 6 \cdot 8$$

$$10 + 48$$

$$\boxed{58}$$

$$3. 18(11 - 6)$$

$$18(5)$$

$$\boxed{90}$$

$$5. \frac{14 + 10}{7 - 4}$$

$$\frac{24}{3}$$

$$\boxed{8}$$

$$7. 5(7 + 5)^2$$

$$5(12)^2$$

$$5(144)$$

$$\boxed{720}$$

$$9. 11(8 + 3^2) - 15$$

$$2. 35 - 20 \div 5$$

$$35 - 4$$

$$\boxed{31}$$

$$4. 28 \div (16 - 9)$$

$$28 \div 7$$

$$\boxed{4}$$

$$6. 33 \div (3^2 + 2)$$

$$33 \div (9 + 2)$$

$$33 \div 11$$

$$\boxed{3}$$

$$8. (5 - 3)^3 + 12 \div 4$$

$$2^3 + 12 \div 4$$

$$8 + 3$$

$$\boxed{11}$$

Evaluate the expression when $x = 4$, $y = 12$, and $z = 9$.Substitute 1st

$$10. 3xy - 7 \rightarrow 3(4)(12) - 7$$

$$144 - 7$$

$$\boxed{137}$$

$$12. \frac{5y}{x} \rightarrow \frac{5(12)}{4}$$

$$\frac{60}{4}$$

$$\boxed{15}$$

$$14. \frac{y - z}{3} \rightarrow \frac{12 - 9}{3}$$

$$\frac{3}{3}$$

$$\boxed{1}$$

$$16. \frac{x + y}{z - 5} \rightarrow \frac{4 + 12}{9 - 5}$$

$$\frac{16}{4}$$

$$\boxed{4}$$

$$18. 36 \div z - x$$

$$36 \div 9 - 4$$

$$4 - 4$$

$$\boxed{0}$$

$$11. 3x^2 + y \rightarrow 3(4)^2 + 12$$

$$3(16) + 12$$

$$48 + 12$$

$$\boxed{60}$$

$$13. 4z^2 - x \rightarrow 4(9)^2 - 4$$

$$4(81) - 4$$

$$324 - 4$$

$$\boxed{320}$$

$$15. (y - x)^2 + 14$$

$$(12 - 4)^2 + 14$$

$$8^2 + 14$$

$$64 + 14$$

$$\boxed{78}$$

$$17. (x^2 - y)(z + 4)$$

$$(4^2 - 12)(9 + 4)$$

$$(16 - 12)(13)$$

$$4(13)$$

$$\boxed{52}$$