

1-1

Skills Practice

Variables and Expressions

Write an algebraic expression for each verbal expression.

1. the sum of a number and 10

2. 15 less than k 3. the product of 18 and q 4. 6 more than twice m

5. 8 increased by three times a number

6. the difference of 17 and 5 times a number

7. the product of 2 and the second power of y 8. 9 less than g to the fourth power

PE($\vec{MD}$)($\vec{AS}$) OR PE($\vec{DM}$)($\vec{SA}$)

LOOSELEAF $\Rightarrow$ ① original problem

$\downarrow \downarrow$

work...

Box Answer

Exercises

Evaluate each expression.

1. $(8 - 4) \cdot 2$

2. $(12 + 4) \cdot 6$

3. $10 + 2 \cdot 3$

4. $10 + 8 \cdot 1$

5. $15 - 12 \div 4$

6. $\frac{15 + 60}{30 - 5}$

7. $12(20 - 17) - 3 \cdot 6$

8. $24 \div 3 \cdot 2 - 3^2$

9. $8^2 \div (2 \cdot 8) + 2$

10. $3^2 \div 3 + 2^2 \cdot 7 - 20 \div 5$

11. $\frac{4 + 3^2}{12 + 1}$

12. $\frac{8(2) - 4}{8 \div 4}$

13. $250 \div [5(3 \cdot 7 + 4)]$

14. $\frac{2 \cdot 4^2 - 8 \div 2}{(5 + 2) \cdot 2}$

15. $\frac{4 \cdot 3^2 - 3 \cdot 2}{3 \cdot 5}$

16. $\frac{4(5^2) - 4 \cdot 3}{4(4 \cdot 5 + 2)}$

17. $\frac{5^2 - 3}{20(3) + 2(3)}$

18. $\frac{8^2 - 2^2}{(2 \cdot 8) + 4}$

BONUS: CONVERT $\frac{1}{19}$ to a decimal by long division.