

Orders of Operations and Powers of Ten

Name _____

Date _____

Solve the expressions.

$$\begin{aligned} 1. \quad (9 + 4) \times 2 &= \\ 13 \times 2 & \\ 26 & \end{aligned}$$

$$\begin{aligned} 2. \quad 3 \times (9 - 4) & \\ 3 \times 5 & \\ 15 & \end{aligned}$$

$$\begin{aligned} 3. \quad 5^2 - (4 \times 3 - 6) & \\ 5^2 - (12 - 6) & \\ 5^2 - 6 & \\ 25 - 6 & \\ 19 & \end{aligned}$$

$$\begin{aligned} 4. \quad (6 \times 9) - (12 - 3^3) & \\ 54 - (12 - 3^3) & \\ 54 - (12 - 9) & \\ 54 - 3 & \\ 51 & \end{aligned}$$

$$\begin{aligned} 5. \quad 5 \times 4 - 3 + 2 & \\ 20 - 3 + 2 & \\ 17 + 2 & \\ 19 & \end{aligned}$$

$$\begin{aligned} 6. \quad 3 \times (6 \div 2) + 2 & \\ 3 \times 3 + 2 & \\ 9 + 2 & \\ 11 & \end{aligned}$$

$$\begin{aligned} 7. \quad 54 \div 3^2 + 5 \times 6 & \\ 54 \div 9 + 5 \times 6 & \\ 6 + 5 \times 6 & \\ 6 + 30 & \\ 36 & \end{aligned}$$

$$\begin{aligned} 8. \quad [7 \times (8 - 3)] + 6 \times 2 & \\ [7 \times 5] + 6 \times 2 & \\ 35 + 6 \times 2 & \\ 35 + 12 & \\ 47 & \end{aligned}$$

$$\begin{aligned} 9. \quad 9 \div 3 + 2 \times 9 & \\ 3 + 2 \times 9 & \\ 3 + 18 & \\ 21 & \end{aligned}$$

$$\begin{aligned} 10. \quad (6^2 + 4) \div 2 & \\ (36 + 4) \div 2 & \\ 40 \div 2 & \\ 20 & \end{aligned}$$

$$11. \quad 5 \times 10^3$$

$$5 \times 1000$$

$$5000$$

$$12. \quad 5 \times 10 + 4 \times 1 + 4 \times (1/100)$$

$$50 + 4 + 0.04$$

$$54.04$$

$$13. \quad 6 \times 10^2$$

$$6 \times 100$$

$$600$$

$$14. \quad \{[(6+2) \times 3] \div 8\} + 6^2$$

$$\{[8 \times 3] \div 8\} + 6^2$$

$$\{24 \div 8\} + 6^2$$

$$3 + 6^2$$

$$3 + 36$$

$$39$$

Write the expression and solve.

$$15. \quad \text{Subtract 2 from 8 then multiply by 4}$$

$$4 \times (8-2) \quad \text{or} \quad (8-2) \times 4$$

$$4 \times 6 \quad \quad \quad 6 \times 4$$

$$24 \quad \quad \quad 24$$

$$16. \quad 6 \text{ more than the product of 3 times 2}$$

$$6 + (3 \times 2) \quad \text{or} \quad 3 \times 2 + 6$$

$$6 + 6 \quad \quad \quad 6 + 6$$

$$12 \quad \quad \quad 12$$

$$17. \quad \text{One fourth the size of 10 times 2}$$

$$10 \times 2 \div 4$$

$$20 \div 4$$

$$5$$

$$18. \quad \text{Eight times the size of the product of 4 and 2}$$

$$8 \times (4 \times 2) \quad \text{or} \quad 4 \times 2 \times 8$$

$$8 \times 8 \quad \quad \quad 8 \times 8$$

$$64 \quad \quad \quad 64$$

$$19. \quad \text{One half the size of 5 and 9}$$

$$(5+9) \div 2$$

$$14 \div 2$$

$$7$$

$$20. \quad \text{Three times the difference of 9 and 6}$$

$$3 \times (9-6) \quad \text{or} \quad (9-6) \times 3$$

$$3 \times 3 \quad \quad \quad 3 \times 3$$

$$9 \quad \quad \quad 9$$