



1. True
2. No. difference 8 and 4 = $8 - 4 = 4$
 difference 4 and 8 = $4 - 8 = -4$
3. 25
4. 2.5
5. $3x$
6. "less than or equal to"
7. Yes, example, $\pi = 3.14\dots\dots$
8. P - parenthesis first
E - exponents / powers
M - multiplication
D - division
A - addition
S - subtraction
9. -4
10. Yes. $2x + 10 = 50$ $x = 20$
 $2(20) + 10 = 50$
 $40 + 10 = 50$
 $50 = 50$ True

11. 34

$$\begin{aligned} & \underline{-2 \times 7} + 10 \times 5 - 16 \div 8 = \\ & -14 + \underline{10 \times 5} - 16 \div 8 = \\ & -14 + 50 + \underline{-16 \div 8} = \\ & -14 + 50 + -2 = \\ & \quad 34 \end{aligned}$$

12. 50

$$\begin{aligned} & 40 \div [(\underline{10-2}) \div (\underline{3 \times 4 - 2})] \\ & 40 \div [(8) \div (\underline{12-2})] \\ & 40 \div [8 \div 10] \\ & 40 \div (8/10) \\ & \frac{40}{1} \div \frac{4}{5} = \frac{40}{1} \cdot \frac{5}{4} = 50 \end{aligned}$$

13. 85

$$\begin{aligned} & 5[(\underline{6-3})^2 + 4 \times 2] \\ & 5[(\underline{3})^2 + 4 \times 2] \\ & 5[9 + \underline{4 \times 2}] \\ & 5[9 + 8] \\ & 5[17] = 85 \end{aligned}$$

$$14. \quad \frac{-38}{3} \quad \frac{(6-5 \times 3^2+1) \div 3}{7-2 \times 3} =$$

$$\frac{(6-5 \times 9+1) \div 3}{7-6} =$$

$$\frac{(6-45+1) \div 3}{1} =$$

$$-38 \div 3 =$$

$$-38 \cdot \frac{1}{3} = \frac{-38}{3}$$

$$15. \quad 6x + 3$$

16. Two times the differences of x and y

$$17. \quad z - xy$$

18. The quotient of the sum of x and y ,
and w

$$19. \quad xyz = 10$$

20. "the difference between the
squares of two different numbers"