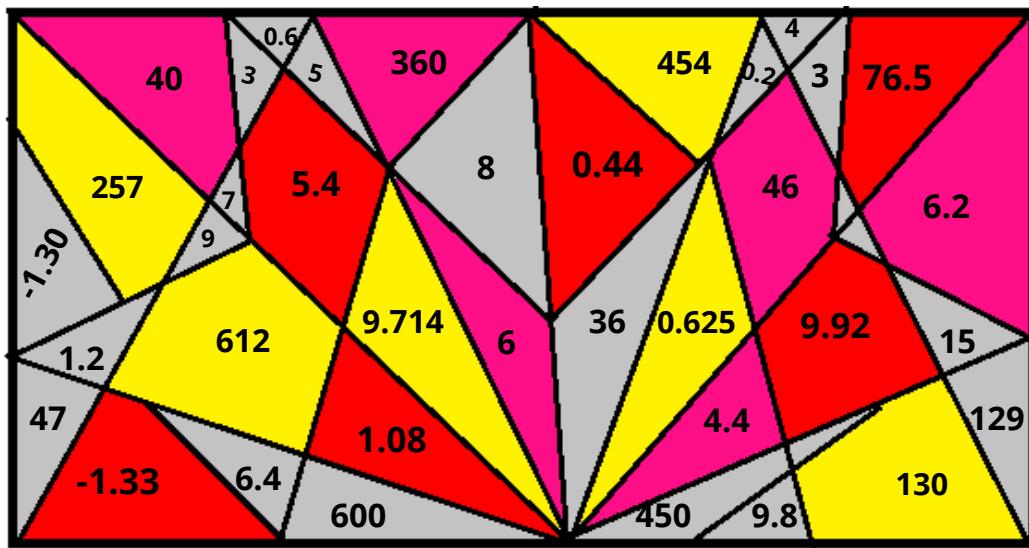


Answer



Find the value of each expression if $m=6$ & $n=28$

$$\begin{aligned} 1. \quad & 8 + 2m \div 4 + n \\ & 8 + 2(6) \div 4 + 28 \\ & 20 \div 32 \\ & 0.625 \end{aligned}$$

$$\begin{aligned} 4. \quad & (3n - 16) \div 7 \\ & [3(28) - 16] \div 7 \\ & 9.714 \end{aligned}$$

$$\begin{aligned} 2. \quad & 9n + 5 \\ & 9(28) + 5 \\ & 257 \end{aligned}$$

$$\begin{aligned} 5. \quad & (7m - 6) + (15n - 2) \\ & [7(6) - 6] + [15(28) - 2] \\ & (42 - 6) + (420 - 2) \\ & 454 \end{aligned}$$

$$\begin{aligned} 3. \quad & (m + n) + 16m \\ & (6 + 28) + 16(6) \\ & 34 + 96 \end{aligned}$$

$$\begin{aligned} 6. \quad & 18(m + n)^{130} \\ & 18(6+28) \\ & 612 \end{aligned}$$

Find the value of each expression if $x=2, y=5, z=3$

$$\begin{aligned} 7. \quad & \frac{(xyz + yxz)^2}{10} \\ & \frac{(2 \times 5 \times 3 + 5 \times 2 \times 3)^2}{10} \\ & \frac{3600}{10} = 360 \end{aligned}$$

$$\begin{aligned} 10. \quad & (xyz/yz)^2 + (12y/xy)^2 \\ & [2 \times 5 \times 3 / 5 \times 3]^2 + [12 \times 5] / 2 \times 5^2 \\ & (2)^2 + (6)^2 = 40 \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{x^2 + y^2 + z^2 + 28}{11} \\ & \frac{(2)^2 + (5)^2 + (3)^2 + 28}{11} \\ & \frac{66}{11} = 6 \end{aligned}$$

$$\begin{aligned} 11. \quad & z^2 + (30 - 5y + 16x) \\ & (3)^2 + [30 - 5(5) + 16 \times 2] \\ & 9 + (30 - 25 + 32) \\ & 46 \end{aligned}$$

$$\begin{aligned} 9. \quad & \frac{14 + 2y + 4x + 10y}{9 - x + z} \\ & \frac{14 + 2 \times 5 + 4 \times 2 + 10 \times 3}{9 - 2 + 3} \\ & \frac{62}{10} = 6.2 \end{aligned}$$

$$\begin{aligned} 12. \quad & \frac{2x^2 + 4z^2}{xy} \\ & \frac{2(2)^2 + 4(3)^2}{2 \times 5} = \frac{44}{10} = 4.4 \end{aligned}$$

Find the value of each expression if $a=1/2, b=5/2, c=3/2$

$$\begin{aligned} 13. \quad & \frac{(a - b)(a + b)}{a+b+c} \\ & \frac{(1/2 - 5/2)(1/2 + 5/2)}{1/2 + 5/2 + 3/2} \\ & -4/3 = -1.33 \end{aligned}$$

$$\begin{aligned} 16. \quad & \frac{b}{a} + \frac{c - a}{b} \\ & \frac{5/2}{1/2} + \frac{3/2 - 1/2}{5/2} \\ & \frac{27}{5} = 5.4 \end{aligned}$$

$$\begin{aligned} 14. \quad & \frac{ab + bc + ca}{5a + 2c + 3b} \\ & \frac{1/2 \times 5/2 + 5/2 \times 3/2 + 3/2 \times 1/2}{5(1/2) + 2(3/2) + 3(5/2)} \\ & 23/52 = 0.44 \end{aligned}$$

$$\begin{aligned} 17. \quad & \frac{a^2 - b^2}{a^2 + b^2} + 2a + 2b + 2c \\ & \frac{(1/2)^2 - (5/2)^2}{(1/2)^2 + (5/2)^2} + 2 \times 1/2 + 2 \times 5/2 + 2 \times 3/2 \\ & 0.92 + 9 = 9.92 \end{aligned}$$

$$\begin{aligned} 15. \quad & 18a(b^2 + c^2) \\ & 18(1/2)[(5/2)^2 + (3/2)^2] \\ & 9(34/4) = 76.5 \end{aligned}$$

$$\begin{aligned} 18. \quad & \frac{a+2b+5a+c}{a^2 + b^2 + c^2} \\ & \frac{1/2 + 2(5/2) + 5(1/2) + 3/2}{(1/2)^2 + 2(5/2)^2 + (3/2)^2} \\ & 38/35 = 1.08 \end{aligned}$$