

1. $2 - 27 - 6 + 3$

2. $3(6 - 7) - 9$

3. $6 + 4 \cdot 5 - 2$

4. $18 - 7 \cdot 15 \div 3$

5. $36 - 5^2 \cdot 2 + 7$

6. $12 - 3(1 - 17) \div 4$

7. $-3x^2 + 2xy$ when $x = -3$ and $y = 6$

8. $\frac{3}{4}x + \frac{5}{6}y$ when $x = 6$ and $y = -2$

9. $-8 \div 4 + 3(5 - 8)^2$

10.
$$\frac{3 + 6 - (19 - 24)^3}{[4(6 - 9)^2 - 4^2]}$$

1. $2 - 27 - 6 + 3$

$-25 - 6 + 3$

$-31 + 3$

$\boxed{-28}$

2. $3(6 - 7) - 9$

$3(-1) - 9$

$-3 - 9$

$\boxed{-12}$

3. $6 + 4 \cdot 5 - 2$

$6 + 20 - 2$

$26 - 2$

$\boxed{24}$

4. $18 - 7 \cdot 15 \div 3$

$18 - 105 \div 3$

$18 - 35$

$\boxed{-17}$

5. $36 - 5^2 \cdot 2 + 7$

$36 - 25 \cdot 2 + 7$

$36 - 50 + 7$

$-14 + 7$

$\boxed{-7}$

6. $12 - 3(1 - 17) \div 4$

$12 - 3(-16) \div 4$

$12 + 48 \div 4$

$12 + 12$

$\boxed{24}$

7. $-3x^2 + 2xy$ when $x = -3$ and $y = 6$

$-3(-3)^2 + 2(-3)(6)$

$-3(9) - 6(6)$

$-27 - 36$

$\boxed{-63}$

8. $\frac{3}{4}x + \frac{5}{6}y$ when $x = 6$ and $y = -2$

$$\frac{3}{4}(6) + \frac{5}{6}(-2)$$

$$\frac{3}{4}\left(\frac{6}{1}\right) + \frac{5}{6}\left(\frac{-2}{1}\right)$$

$$\frac{3}{4^2}\left(\frac{6^3}{1}\right) + \frac{5}{6^3}\left(\frac{-2^1}{1}\right)$$

$$\frac{3}{2}\left(\frac{3}{1}\right) + \frac{5}{3}\left(\frac{-1}{2}\right)$$

$$\frac{9}{2} - \frac{5}{6}$$

$$\frac{3}{3}\left(\frac{9}{2}\right) - \frac{5}{6}$$

$$\frac{27}{6} - \frac{10}{6}$$

$$\frac{27-10}{6}$$

$$\boxed{\frac{17}{6}}$$

9. $-8 \div 4 + 3(5-8)^2$

$$-2 + 3(-3)^2$$

$$-2 + 3(9)$$

$$-2 + 27$$

$$\boxed{25}$$

10. $\frac{3+6-(19-24)^3}{\left[4(6-9)^2-4^2\right]}$

$$\frac{9-(-5)^3}{4(-3)^2-16}$$

$$(-5)^3 = (-5)(-5)(-5) = -5(25) = -125$$

$$\frac{9-(-125)}{4(9)-16}$$

$$\frac{9+125}{36-16}$$

$$\frac{134}{20}$$

$$\frac{134}{20}$$

$$\boxed{\frac{67}{10}}$$

Top and bottom are both divisible by 2