1. $(3+2)^2 = 5^2 = 25$

2. $\frac{6+6+4+4}{4} = \frac{20}{4} = 5$

3. $\frac{10-6}{4} = \frac{4}{4} = 1$

4. $\frac{15}{6-1} = \frac{15}{5} = 3$

5. $\frac{(2+2)^2}{8} = \frac{4^2}{8} = \frac{16}{8} = 2$

6. $\frac{3}{5}(5) + \frac{2}{5}(10) = 3 + 4 = 7$

7. $\sqrt{81} = 9$

8. $\sqrt{\frac{(5-5)^2+(6-5)^2+(4-5)^2}{3}} = \sqrt{\frac{(0)^2+(1)^2+(-1)^2}{3}} = \sqrt{\frac{0+1+1}{3}} = \sqrt{\frac{2}{3}} = 0816$

Use the following values: $x_1 = 2, x_2 = 3, x_3 = 5, x_4 = 6$

9. $\sum x_i = 2+3+5+6 = 16$

10. $\sum x_i^2 = 2^2 + 3^2 + 5^2 + 6^2 = 4 + 9 + 25 + 36 = 74$

11. $\frac{\sum x_i}{4} = \frac{2+3+5+6}{4} = \frac{16}{4} = 4$

12. $\sum(x_i - 1) = (2-1) + (3-1) + (5-1) + (6-1) = 1 + 2 + 4 + 5 = 12$

Use the following five values for X: 4,5,6,6,7, for questions 13-16.

13. $\sum X_i = 4 + 5 + 6 + 6 + 7 = 28$

14. $\sum X_i^2 = 4^2 + 5^2 + 6^2 + 6^2 + 7^2 = 16 + 25 + 36 + 36 + 49 = 162$

15. $(\sum X_i)^2 = (28)^2 = 784$

16. $\sum (X_i - 4)^2 = (4-4)^2 + (5-4)^2 + (6-4)^2 + (6-4)^2 + (7-4)^2 = 0^2 + 1^2 + 2^2 + 2^2 + 3^2 = 0 + 1 + 4 + 4 + 9 = 18$

17. $3! = 3 * 2 * 1 = 6$

18. $7! = 7 * 6 * 5 * 4 * 3 * 2 * 1 = 5040$

19. $0! = 1$

20. $\frac{5!}{3!(5-3)!} = \frac{5*4*3*2*1}{(3*2*1)(2*1)} = \frac{5*4}{2} = \frac{20}{2} = 10$

21. $\frac{4!}{0!(4-0)!} = \frac{4*3*2*1}{1(4*3*2*1)} = 1$