

Name _____

Binomial Expansion Worksheet #1

Expand each binomial raised to a power using Pascal's Triangle.

1. $(x^4 + y)^3$

2. $(x - y)^4$

3. $(3x + 5y)^3$

4. $(2x - 3y^2)^5$

Find the indicated term:

5. The 3rd term of $(x + y)^7$

6. The 6th term of $(x - 2y)^{10}$

7. The 10th term of $(10x - z)^9$

8. The 2nd term of $(2x + 5y)^5$

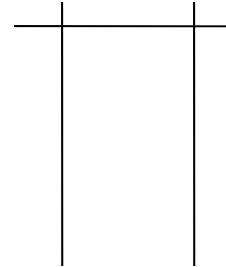
9. For the data below round to the nearest hundredth is necessary.

7	5	3	9	6	6
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a) Find the range:_____ Mean:_____ Median:_____ Mode:_____

b) Find the variance:

c) Find the standard deviation:



50	60	54	54	50	62	52	52	40	40	31	55	50
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10. For the data above, find the following. Round to the nearest hundredth if necessary.

a) Mean_____

b) Variance_____

c) Standard deviation_____

