

Quiz  
Grab Bubble Sheet and Quiz

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Quiz  
Calendar Math  
Homework Questions  
Go Over Quiz  
Unit 1 Review  
Test on Unit 1 on 9/8

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Calendar Math  
systematically favoring a particular outcome

The statistic is not equal to the parameter  
- undercoverage  
- convenience  
- nonresponse

**Biased**

Randomly calling homes during the day to ask how many times the homeowner bakes in a week.

Randomly calling homes at random times of the day and evening to conduct our study about baking.

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Statistical study that doesn't favor any particular outcome.

The statistic equals the parameter.  
- random  
- stratified  
- cluster

**non-biased**

Randomly selecting 250 from the population of teen drivers in Utah.

Having only 20 of our sample of 250 respond to our survey.

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Homework Questions

10)  $x^3 (2x-1)^5$

$a=2x$   
 $b=-1$

$10a^3b^2$

$10 \cdot (2x)^3 \cdot (-1)^2$

$10 \cdot 8x^3 \cdot 1 = 80x^3$

**80**

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

$(a+b)^4$   $a=4x$   $b=3y$

$1 \cdot a^4 = 256x^4 = (4x)^4 = 4^4 \cdot x^4$

$4a^3b = 4 \cdot (4x)^3 \cdot (3y) = 256x^3 \cdot 3y = 768x^3y$

$6a^2b^2 = 6 \cdot (4x)^2 \cdot (3y)^2 = 6 \cdot (16x^2) \cdot (9y^2) = 864x^2y^2$

$4ab^3 = 4 \cdot (4x) \cdot (3y)^3 = 16x \cdot 27y^3 = 432xy^3$

$1 \cdot b^4 = 1 \cdot (3y)^4 = 81y^4$

$256x^4 + 768x^3y + 864x^2y^2 + 432xy^3 + 81y^4$

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$$\begin{aligned}
 &5) (2n^4 - 1)^5 \quad a = 2n^4 \quad b = -1 \\
 &1 \cdot a^5 = (2n^4)^5 = 2^5 \cdot (n^4)^5 = 32n^{20} \\
 &5a^4b = 5(2n^4)^4 \cdot (-1) = 5 \cdot (2)^4 (n^4)^4 \cdot (-1) \\
 &10a^3b^2 = 10(2n^4)^3 \cdot (-1)^2 = 10 \cdot 2^3 (n^4)^3 \cdot 1 = 10 \cdot 8n^{12} = 80n^{12} \\
 &10a^2b^3 = 10(2n^4)^2 \cdot (-1)^3 = -10 \cdot 2^2 (n^4)^2 \cdot 1 = -10 \cdot 4n^8 = -40n^8 \\
 &5ab^4 = 5(2n^4) \cdot (-1)^4 = 10n^4 \cdot 1 = 10n^4 \\
 &1b^5 = 1 \cdot (-1)^5 = -1 \\
 &32n^{20} - 80n^{16} + 80n^{12} - 40n^8 + 10n^4 - 1
 \end{aligned}$$

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Unit 1 Review  
1.1 Add, Subtract and Multiply Polynomials

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1.2 Greatest Common Factor and Factoring Trinomials

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1.3 Sum and Difference of Squares and Cubes

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1.4 Binomial Theorem

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Unit 1 Review  
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## 1.4 Binomial Theorem

$$(a + b)^0 = 1$$

$$(a + b)^1 = 1a + 1b$$

$$(a + b)^2 = 1a^2 + 2ab + 1b^2$$

$$(a + b)^3 = 1a^3 + 3a^2b + 3ab^2 + 1b^3$$

$$(a + b)^4 = 1a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + 1b^4$$

$$(a + b)^5 = 1a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + 1b^5$$

$$(a + b)^5 = 1a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + 1b^5$$

$$(a + b)^4 = 1a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + 1b^4$$

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