

**Find the GCF**



**How Many Terms?**

**2**

**Subtraction**

**Addition**

**3**

**Backwards  
Box Method**

**4**

**Grouping**

**Diff. of  
Squares**

**Diff. of  
Cubes**

**Sum of  
Cubes**

## Unit 3 Review

### Factoring

Factor each polynomial completely.

3.  $9w^2 - 16$

$$a = \sqrt{9w^2} = 3w$$

$$b = \sqrt{16} = 4$$

$$(3w+4)(3w-4)$$

6.  $8x^3 + 27$

$$a = \sqrt[3]{8x^3} = 2x$$

$$b = \sqrt[3]{27} = 3$$

$$(2x+3)(4x^2-6x+9)$$

**Data Collection**

*Classify each as an example of a survey, observational study, or experiment.*

15. You want to determine if a new drug for treating migraines is more effective than the drug currently on the market. What type of study is best for this situation?

Experiment

**Sampling Techniques**

*Classify each as an example of simple random, stratified, systematic, cluster, voluntary response, or convenience.*

19. A club has 20 male and 80 female members. The club president wants to determine the theme for the upcoming dance. The president asks 10 male and 10 female members. Identify the type of sampling method used.

Stratified

**Homework is to Finish the Review!!**