Use ***mental estimation***(no calculator or paper-and-pencil calculations) to fill in the blank with the appropriate symbol, >, <, =. Then explain your estimation strategy.

1. $\frac{15}{6}$ \_\_\_\_\_\_\_ $\frac{18}{9}$

Explanation:

1. $\frac{3}{7}$ \_\_\_\_\_\_\_\_ $\frac{2}{3}$

Explanation:

1. $\frac{23}{5}$\_\_\_\_\_\_\_ $\frac{17}{4 }$

Explanation:

1. Write $\frac{17}{4 }$ as a mixed number.
2. Write $3\frac{3}{7}$ as an improper fraction.
3. Fill in the blank to make a true statement:

$$\frac{5}{7}=\frac{}{49}$$

1. Fill in the blanks to complete the following statements about the expression, $3x^{2}+12x^{3}$.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are *terms* and \_\_\_\_\_\_\_\_\_ is a *factor* of both terms.
3. \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ are *exponents* and \_\_\_\_\_\_\_\_ is the *base* of the exponent.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the coefficient of .

**Thinking Ahead to Adding and Subtracting Fractions**

To prepare for your next class, you should fully understand the following questions. These problems are in the textbook – write the problems in the space provided below. You should check your answers with the answer key in the textbook to make sure you are correct. You can get help with this work from the following sources:

* Your textbook: pp. 9-10
* Visit your instructor during office hours
* Go to the Algebra Alcove
* Use the following resources on the Internet:
	+ YouTube video: <http://www.youtube.com/watch?v=52ZlXsFJULI&feature=youtube_gdata>
	+ Websites:

For addition: http://www.mathsisfun.com/fractions\_addition.html

For subtraction: <http://www.mathsisfun.com/fractions_subtraction.html>

**p. 23: #35-38, 48-50**