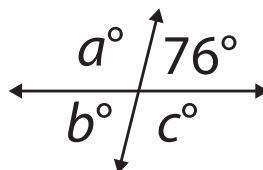


## Sample Lesson

- Which are complex fractions?  
A)  $\frac{1}{2}$                       B)  $\frac{\frac{2}{9}}{7}$                       C)  $\frac{7}{3}$                       D)  $\frac{\frac{3}{4}}{\frac{1}{8}}$
- If the temperature at the North Pole is  $-12^\circ$ , how many degrees would the temperature have to increase for it to be  $0^\circ$ ?
- Victoria thinks these expressions are equivalent. Is she correct? Explain.  
 $6(4t + 4) - 9t$                        $15t + 4$
- The ratio of mallard ducks to swans living at the pond was 12 to 4. If there were 45 mallard ducks, how many swans were there?  
(Hint: Set up a ratio:  $\frac{45}{?} = \frac{12}{4}$ ; cross-multiply and divide the product by 12.)
- Find the radius of a circle that has an area of  $530.66 \text{ cm}^2$ . Use 3.14 for pi.
- Which two expressions mean the same as “increase by 5.4%?”  
A)  $1a + 0.054a = 1.054a$                       B)  $1.54a$                       C) multiply by 1.054
- When two factors have opposite signs, the product is (negative/positive). Which equations will have a negative product?  
A)  $-4 \times 5$                       B)  $4 \times 5$                       C)  $4 \times -5$                       D)  $-4 \times -5$
- Bradley bought a chair at a yard sale for \$8.00, which is \$25.00 less than it would have been if he had purchased it new. Write and solve an equation to find out how much the chair would have cost if he had purchased it new.
- Find the values of  $a$ ,  $b$ , and  $c$ .
- Barney and Fred went to see a movie. Each ticket cost \$6.25. They each bought a \$2.75 drink, and they shared a box of popcorn that cost \$5.00. If the friends started with \$40.00, how much did they have left after the movie?
- A coin is tossed. What is  $P(\text{tails})$ ? (In other words, what is the probability that the coin will land tails up?) Express the probability as a fraction.
- Cameron and 4 others bought identical bat bags. The cost for all five bags was \$115 plus 8% sales tax. If each person contributed \$23, would that be enough to cover the bill? Estimate and explain.

1.	2.
3.	4.
5.	6.
7.	8.
<p>9.</p> 	10.
11.	12.