

Part I: Readiness Test for Saxon's Algebra 1

The purpose of this section is to determine readiness for Saxon's *Algebra 1* textbook. Answering 8 or more problems correctly indicates readiness for Saxon's *Algebra 1* textbook.

1. Express $\frac{3}{8} + \frac{5}{6}$ as a fraction reduced to lowest terms.
2. Find the area of a circle of radius 2. (Area = πr^2) Express your answer in terms of π .
3. Draw a number line that shows at least the integers from -3 to 3 . Graph the numbers 2 , 3 , and $5\frac{1}{2}$.
4. Multiply. Express the product as a fraction reduced to its lowest terms.

$$\frac{3}{8} \times \frac{4}{5}$$

5. Express mathematically "five added to twice a number." Use N to represent the unknown number.
6. The ratio of boys to girls in the class was 4 to 6. If there were 8 boys in the class, how many girls were in the class?
7. The original price of the pants was \$40.00; during the Presidents' Day Sale, the price of the pants was reduced by 20%. What was the sale price of the pants?
8. Compute: $3^2 - 2^3 + \sqrt{16}$

9. Complete the table by converting the fraction to a decimal and a percent. An example is shown on the left:

fraction	decimal	percent
$\frac{1}{2}$	0.50	50%

fraction	decimal	percent
$\frac{3}{8}$		

10. Use the information in the graph below to calculate the average monthly new car sales for the five months shown on the graph.

