Simplify each expression.

1) Let a = 4, b = 6, c = 8

3a - 2b + c

2) Let x = 6 and y = 10

$$\frac{5x + 2y}{10}$$

3) Let g = 8, h = 4, j = 3

(3g - 5h) ● j

Write your answer on the lines provided.

4) Explain how to enter a fraction into the calculator.

5) The Algebra STAAR Test is the only STAAR math test in high school that you HAVE to take. If you fail, you have to keep taking it until you pass. What are you going to do to make sure you pass?

Translate each sentence into an algebraic expression.

6) The sum of x and 7

   F   7x
   G   x + 7
   H   x - 7
   J $\frac{7}{x}$

7) The product of 11 and y

   A   11y
   B   11 + y
   C   11 - y
   D $\frac{11}{y}$

8) 3 subtracted from r

   F   3 - r
   G   3r
   H   3 + r
   J   r - 3

Use the graph to answer the questions.
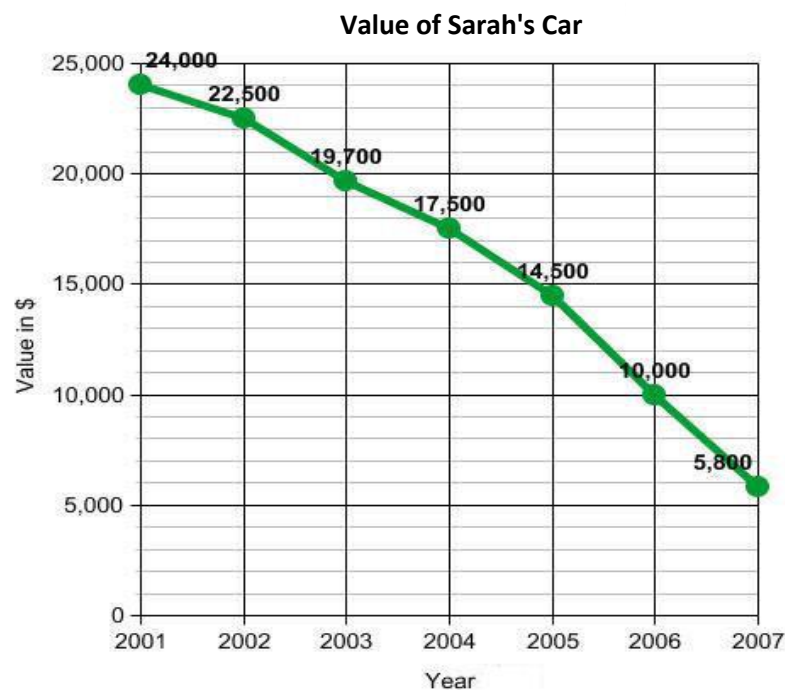
Value of Sarah's Car

9) Is the value of Sarah's car increasing or decreasing?

10) What is the difference in value between 2002 and 2005?

11) Between which 2 years did the value change by $2,200?

12) Estimate the year that her car is worth less than $1,000.