Directions: Complete each question. SAWGAP

1. Which is equivalent to $2^7 \cdot 2^{-5}$?

A. 2^2

B. 2¹²

C. 2^{-2}

D. 2^{-35}

2. Which exponential expression is equal to $7^{-5} \cdot 7^{8}$?

A. $\frac{7^2}{7^{-1}}$

B. $(7^3)^{-1}$

C. $\frac{7^{-2}}{7^{-1}}$

D. $(7^{-1})^3$

3. Solve the following

 $(2x^3)^4$

4. Which expression is equivalent to $(4.5 \times 10^2) + (6.0 \times 10^3)$ and written in scientific notation?

A. 1.05×10^6

B. 2.7×10^6

C. 6.45×10^3

D. 10.5×10^5

- 5. What is the value of x in the equation 2(x-4) = 4(2x+1)?
 - A. -2
 - B. 2
 - C. $-\frac{1}{2}$
 - D. $\frac{1}{2}$

- 6. What is the value of x in the equation $\frac{3}{4}x + 2 = \frac{5}{4}x 6$?
 - A. -16
 - B. 16
 - C. -4
 - D. 4
- 7. Winston needs at least 80 signatures from students in his school before he can run for class president. He has 23 signatures already. He and two of his friends plan to get the remaining signatures during lunch. If each person gets the same number of signatures, which inequality can Winston use to determine the minimum number of signatures each person should get so he can run for class president?
 - A. $3x + 80 \ge 23$
 - B. $3x + 80 \le 23$
 - C. $3x + 23 \ge 80$
 - D. $3x + 23 \le 80$