Mathematics Assessment Program

Middle School Mathematics

Short Tasks: Expressions and Equations

- 1. A straight fence is constructed from posts 6 inches wide and separated by lengths of chain 5 feet long. A certain fence begins and ends with a post. If there are 7 posts, what is the total length of the fence?
- 2. One of the numbers below has the same value as 3.5×10^{-3} .Write true under the correct number.35 x 10^{-4} 3.5 x 10^3 0.000353500
- 3. Use the formula

 $P = \frac{V^2}{R}$ to calculate the value of P when V = 6 x 10⁶ and R = 7.2 x 10⁸

- 4. Sheila works 8 hours per day on Monday, Wednesday and Friday, and 6 hours per day on Tuesday and Thursday. She does not work on Saturday and Sunday. She earns \$324 per week. How much does she earn in dollars per hour
- 5. Find the value of $(3 \times 10^4) + (2 \times 10^2) + (4 \times 10)$.
- 6. If x and y are positive integers, and 3x + 2y = 13, what could be the value of y?
- 7. Draw a circle around the expression which is greatest when n is a negative number?

n-2 2n n^2 $\underline{-n}$ $\underline{-2}$ n

- 8. Draw a circle around the largest of these numbers? 2×10^{-2} 3×10^{-1} 3.2×10^{-1} 2.5×10^{-3}
- 9. Find the value of: $\frac{2.1 \times 10^6}{7 \times 10^3}$
- 10. If the product of 6 integers is negative, at most how many of the integers can be negative?