



**MONTANA COUNCIL OF TEACHERS OF MATHEMATICS
2009 MATH CONTEST**

PROBLEM SOLVING TEST

DIRECTIONS: DO NOT WRITE ON THIS TEST. Place the best answer for each question on the separate answer sheet.

1. What is the 10^{th} term of the following sequence: 64, 32, 16, 8, ...?

- A) $1/8$ B) $1/4$ C) 1 D) $1/16$ E) $1/32$

2. Solve for x: $2x + 2y = 10$?

- A) $x = y + 5$ B) $y = -x + 5$ C) $x = -y + 5$ D) $x + y = 5$ E) $x = y - 5$

3. Light travels approximately 186,000 miles per second. Approximately how many feet per hour is this?

- A) 2.6×10^6 B) 4.7×10^7 C) 8.6×10^{10} D) 3.5×10^{12} E) 3.5×10^{13}

4. What is the 19^{th} digit after the decimal point in $\frac{13}{7}$?

- A) 1 B) 4 C) 5 D) 7 E) 8

5. Simplify: $(10^{20})(10^{120})$

- A) 10^{140} B) 10^{240} C) 20^{140} D) 100^{140} E) 100^{240}

6. Jane has three different t-shirts, two pair of jeans and three pair of shoes, how many different outfits can she wear?

- A) 8 B) 18 C) 10 D) 6 E) 5

7. Describe the slope (m) and y-intercept (b) for the graph shown.

- A) $m=0$, $b>0$ B) $m>0$, $b>0$ C) m is undefined, $b=0$ D) $m<0$, $b<0$ E) $m<0$, $b>0$



8. During a flood, several houses on the block recorded the rise in water level in their basement over different lengths of time. Which family's water levels are rising the fastest?

	Smith	Carroll	Mason	Wagner	Reed
Increase	6 ft	1 ft	15 in	10 in	10 feet
Time	1 hr	20 min	0.25 hr	5 min	2 min

- A) Smith B) Carroll C) Mason D) Wagner E) Reed

9. Which number is the farthest from 0?

- A) 3.2×10^6 B) 28.4×10^5 C) 3.94×10^{-4} D) 5285 E) -3.7×10^7

10. Solve for x and y: $\begin{bmatrix} 7 & 9 \\ -3 & 5.3 \end{bmatrix} + \begin{bmatrix} 2x & 3 \\ 15 & -6.2 \end{bmatrix} = \begin{bmatrix} 12 & 12 \\ 12 & \frac{y}{2} \end{bmatrix}$

- A) $x = 2.5$
 $y = -1.8$ B) $x = \frac{6}{7}$
 $y = 1.8$ C) $x = 2.5$
 $y = -0.9$ D) $x = 2.5$
 $y = -0.9$ E) $x = \frac{6}{7}$
 $y = -0.9$

Skill Power Homework Arithmetic Practice Problem Solving Test Practice Vocabulary Grade 1 One

**Robert J. Sternberg, Wendy Melissa
Williams**



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