2013 Cindy D. Wright, Pizitz Math Tournamer Seventh Grade Ciphering

1.1 Simplify.
$$[(6+8)+5\cdot7]+10$$

1.2
$$\frac{4}{5}$$
 of $\frac{5}{6}$ of $\frac{3}{8}$ is what percent of 2?

- 1.3 A runner finished a race in 10.5 s. In the next race, the runner finished in 9.8 s. Find the percent of decrease in the running time.
- 1.4 Find the distance between the points (7,12) and (4,16).
- 1.5 What is the surface area of a cube with edge 5 cm.
- 2.1 Simplify. $\frac{3\frac{2}{3}}{-4\frac{1}{2}}$ Express the answer as a fraction.
- 2.2 What is the units digit of $(7^{2009})^{2009}$.
- 2.3 Simplify. $4x(3x + 2) 1 \cdot 8x + 9$
- 2.4 Find the product. $(\frac{1}{2}c + 10)(\frac{1}{2}c 10)$
- 2.5 Solve for x. $x = \frac{(189) (10!) (\sqrt{999})(0)}{648}$
- 3.1 Evaluate if a = 6, b = 4, and c = 3. $\frac{4(a-b)}{c-1}$
- 3.2 Solve for x. 9 = -3x 18
- 3.3 Simplify. $\sqrt{112x^4y^8}$
- 3.4 What is the degree of the interior angle of an icosagon?
- 3.5 Find the next three terms in the sequence. 9, 7, 10, 8, 11, 9, 12,.....

- 4.1 Simplify. $(-2 a^3 b^5)^3$
- 4.2 Find the product of the complement of 12° and the supplement of 24°
- 4.3 What is the probability of being born on February 30th? Assume that it can be leap year.
- 4.4 Simplify. -17 + [-16 + (14 + 32)]
- 4.5 Solve for x. $(x-7)^2 = 49$

Extral Find the product of the GCF and LCM of $16a^3b^5$ and $32a^4b$.

Extra 2 Simplify.
$$\frac{(11.15) + (2.5)}{3^2 + 4^2}$$

Extra 3 The sum of 2 integers is -2. The product of two integers is -24. What is the sum of their reciprocals?