

NYS Math 7 2009 Answer Key

Multiple Choice

- 1) A
- 2) C
- 3) C
- 4) D
- 5) C
- 6) C
- 7) D
- 8) B
- 9) A
- 10) D
- 11) C
- 12) C
- 13) B
- 14) D
- 15) C
- 16) B
- 17) B
- 18) C
- 19) B
- 20) C
- 21) D
- 22) A
- 23) B
- 24) D
- 25) A
- 26) C
- 27) C
- 28) D
- 29) B
- 30) B

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|-----|----|----|----|
| 31) | SP | WP | RP |
| | SH | WH | RH |
| | ST | WT | RT |
| | SE | WE | RE |

- 32) $\frac{12}{10} = \frac{X}{15}$ $10X=180$ $X=18$ pens

$$\begin{array}{r}
 33) \quad 3 \times 2^3 + 5 \times 6^2 \\
 \quad 3 \times 8 + 5 \times 36 \\
 \quad 24 + 180 \\
 \quad 204
 \end{array}$$

34) 1.06×10^{-7}
 Move the decimal until you get a number between 1 and 10. Multiply that number by a power of ten with an exponent equal to the number of time you moved the decimal. The decimal is negative because you are dividing by the power of ten.

$$\begin{array}{r}
 35) \quad 5 \\
 \text{Part B: } -9 + 6 + 3 \\
 \quad -3 + 3 \\
 \quad 0
 \end{array}$$

$$\begin{array}{r}
 36) \quad \frac{1}{8} = \frac{x}{12} \quad 8x = 12 \quad x = 1.5 \text{ gallons}
 \end{array}$$

3.5 gallons left in bucket.

$$\begin{array}{r}
 \frac{4}{1} = \frac{x}{3.5} \quad x = 14 \text{ quarts}
 \end{array}$$

$$\begin{array}{r}
 37) \quad 115 + 72 + 40 = 227 \\
 \quad 360 - 227 = 133
 \end{array}$$

$$\text{Check: } 133 + 115 + 72 + 40 = 360$$

$$\begin{array}{r}
 38) \quad \text{Plants Sold} \\
 \quad \text{Price} \quad \text{Plants} \\
 \quad \quad 3 \\
 \quad \quad 3 \\
 \quad \quad 2 \\
 \quad \quad 4
 \end{array}$$

Answer: \$8.00-\$11.99