

Name _____

Date _____ Per _____

found on page 2 of your textbook.

Lesson Standards: M8.A.2.1.1, M8.A.3.3.1, M8.D.2.1.3

Sponge Problems

- The earth is approximately 93,000,000 miles from the sun. What is the distance written in scientific notation? (M8.A.1.1.1)
A. 9.3×10^6 B. 9.3×10^7 C. 93×10^6 D. 93×10^7
- A secretary can type 56 words per minute. How much time will she need to type a 4200 word report? (M8.A.2.2.2)
A. 1 hour, 4 minutes C. 1 hour, 28 minutes
B. 1 hour, 15 minutes D. 7 hours, 30 minutes

Section Problems

Evaluate each expression using the values given.

- $y \div 2 + x$; use $x = 1$ and $y = 2$
- $a - 5 - b$; use $a = 10$ and $b = 4$
- $p^2 + m$; use $m = 1$ and $p = 5$
- $y + 9 - x$; use $x = 1$ and $y = 3$
- $m + p \div 5$; use $m = 1$ and $p = 5$
- $y^2 - x$; use $x = 7$ and $y = 7$
- $z(x + y)$; use $x = 6$, $y = 8$ and $z = 6$
- $x + 2y$; use $x = 9$ and $y = 10$
- $p^3 + 10 + m$; use $m = 9$ and $p = 3$
- $6q + m - m$; use $m = 8$ and $q = 3$
- $p^2m \div 4$; use $m = 4$ and $p = 7$
- $y - (z + z^2)$; use $y = 10$ and $z = 2$

16. $(y + x) \div 2 + x$; use $x = 1$ and $y = 1$

17. $p - (9 - (m + q))$; use $m = 4$, $q = 2$, and $p = 5$

18. $(a^2 - b) \div 6$; use $a = 5$ and $b = 1$

19. $2(p + 4) - (m + n)$; use $m = 4$, $n = 2$, & $p = 5$

20. $y - (4 - x - y \div 2)$; use $x = 3$ and $y = 2$

21. $x^3 \div 3 - y$; use $x = 3$ and $y = 1$

22. $pn + (n + m)^2$; use $m = 1$, $n = 4$, and $p = 6$

23. $12k - h^2$; use $h = 2$ and $k = 3$

24. $p + m + n + m^2$; use $m = 1$, $n = 4$, and $p = 6$

25. $2 + r - (5 - q) + p$; use $p = 2$, $q = 2$, and $r = 5$

26. $y - z + xz \div 6$; use $x = 3$, $y = 4$, and $z = 4$

27. $\frac{y}{2} + x + 4 + z + y$; use $x = 7$, $y = 2$ & $z = 4$

28. $c \times \frac{bc}{4} - (7 - a)$; use $a = 4$, $b = 8$, $c = 5$

29. $y - \frac{1}{2}$; use $y = \frac{5}{6}$

30. $0.8 + h$; use $h = 3.7$