

1st Semester Benchmark Study Guide

Evaluate.

1.) $67.03 + 12 = 79.03$ 2.) $34.9 - 2.55 = 32.35$ 3.) $74.2 \times 0.13 = 9.646$

4.) $7254.109 \div 47.1 = 154.02$

5.) Jabe has \$521.07 in his bank account. He buys an iPad on sale for \$399.95. How much money does he have left in his bank account? $\$121.12$

6.) At noon, the temperature in Detroit, Michigan, was 21 degrees Fahrenheit. At midnight, the temperature was 9 degrees Fahrenheit. How much did the temperature change during the 12-hour period? $21 - 9 = 12^\circ$ decreased by 12° or -12°

7.) Damian's home is located at 350 feet above sea level. How far, in feet, is his home above Owen's home that is at 125 feet above sea level? $350 - 125 = 225 \text{ ft.}$

8.) Jillian is a fashion designer. She is paid \$50 for designing a dress plus \$15 for each hour she works. How much will Jillian earn for working 7 hours? $\$50 + \$15(7) = \$50 + \$105 = \$155$

9.) Logan has a job raking leaves. He is paid \$7.25 per hour. He was paid \$29 for raking Mrs. Cook's yard. Write an equation to find the number of hours h he worked. $\$7.25h = \29 $h = 4 \text{ hrs}$

10.) Mary Katelyn's Mom is twenty-seven years older than Mary Katelyn. If Mary Katelyn's Mom is 42 years old, how old is Mary Katelyn? $42 - 27 = 15$

11.) $(7 + 3) \div 2 \cdot 3^2$
 $10 \div 2 \cdot 3^2$
 $5 \cdot 9 = 45$

12.) $4^3 - 20 \div 11$
 $64 - 20 \div 11$
 $64 - 1.82 = 62.18$

13.) Simplify: $3(5x + 7)$
 $15x + 21$

14.) Simplify: $8(6x + 2y - 5z)$
 $48x + 16y - 40z$

15.) Complete the table for $y = 4x$.

x	0	3	5	9
y	0	12	20	36

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