

Name _____

Math 8

Day 113 Worksheet

_____ 1.) The population of Small Town went from 4332 in 1990 to 3952 in 2000. The town council discovered that 35% of those who left moved to Big City. How many moved to Big City?

A.) 380

B.) 133

C.) 417

D.) 204

E.) NH

_____ 2.) The library charges \$0.25 a day for overdue books and an additional \$1.50 if they mail a notice. Martha's book was 12 days overdue and she received a notice. However, the library said she could pay $\frac{1}{3}$ of the fine if she donated a book. She did. Which equation can be used to find how much her fine (f) was?

A.) $f = 1.50 + \frac{.25 \cdot 12}{3}$

B.) $f = 3(1.50 + .25 \cdot 12)$

C.) $f = (1.50 + .25) \cdot \frac{1}{3}$

D.) $f = \frac{1.50 + .25 \cdot 12}{3}$

_____ 3.) $h = 3.75 + .60f$ If $f = 4\frac{2}{3}$, $h = ?$

A.) 6.55

B.) 6.15

C.) 12.15

D.) 9.45

E.) NH

_____ 4.) Triangle ABC is isosceles. Which is possible for its angles?

A.) $30^\circ, 60^\circ, 90^\circ$

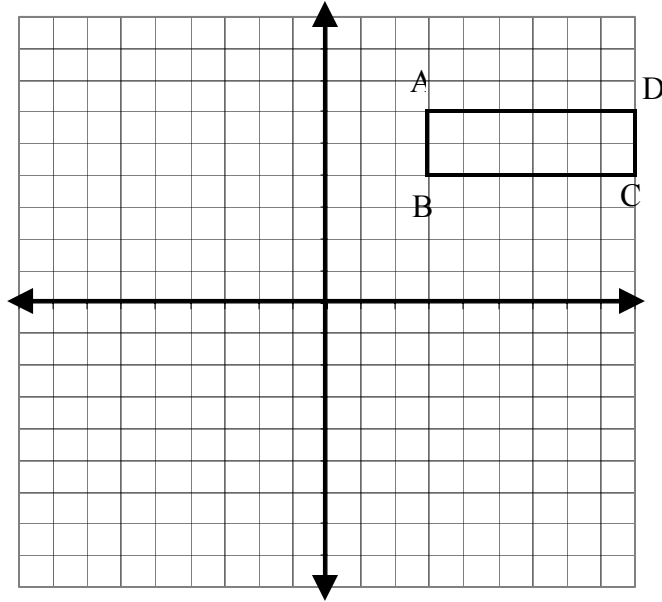
B.) $60^\circ, 60^\circ, 60^\circ$

C.) $30^\circ, 30^\circ, 120^\circ$

D.) $50^\circ, 50^\circ, 90^\circ$

E.) Not Here

_____ 5.) If rectangle ABCD is reduced by a scale factor of $\frac{2}{3}$, what are the coordinates of D'?



- A.) (4.5,3) B.) $(8\frac{1}{3}, 5\frac{1}{3})$ C.) (6,4) D.) (4,6) E.) NH

_____ 6.) The original price of a sweater was \$30. Toward the end of winter, the price was changed to \$12. What was the percent of the discount?

- A.) 18 B.) 60 C.) 40 D.) 12 E.) NH

_____ 7.) Which is in order from least to greatest?

- A.) $-.66, -.615, -.6, -.5999$ B.) $-.5999, -.6, -.615, -.66$
 C.) $-.6, -.66, -.615, -.5999$ D.) $-.5999, -.615, -.66, -.6$

_____ 8.) Which equation can be used to find the area of the shaded region within the rectangle?

- A.) $A = 5(LW + \pi r^2)$ B.) $A = 5(LW - \pi r^2)$
 C.) $A = LW - \pi r^2 + 5$ D.) $A = LW - 5\pi r^2$
 E.) Not Here

