GA Milestone Review #5

**This is due Friday, April 15th for a formative grade.**

1. Write the ratio as a fraction in simplest form.

 35:50

a. $\frac{10}{7}$ c. $\frac{7}{9}$

b. $\frac{15}{25}$ d. $\frac{7}{10}$

2. Which number represents being paid $34.75?

a. $-34.75$ c. $+34.75$

b. $-3475$ d. $+3475$

3. Find the mean and median of the data set.

35, 40, 37, 36, 42, 42, 34

a. mean: 38; median: 37

b. mean: 38; median: 42

c. mean: 37; median: 38

d. mean: 42; median: 37

4. What is 35% of 220?

a. 0.77 c. 770

b. 7.7 d. 77

5. Which of the following has a value less than 0?

a. -│7│ c. 7

b. │7│ d. │-7│

1. In the expression$ 6x^{2}+3x-3$,

 $6x^{2}, 3x $and 3 are examples of which of the following?

a. coefficients c. factors

b. variables d. terms

7. How many feet are there in 7 miles? (5,280 feet=1mile)

a. 3,696 feet c. 7,040 feet

b. 5,280 feet d. 36,960 feet

8. Evaluate $68a+4$ for $a=7$.

a. 480 c. 476

b. 492 d. 748

9. Start at the origin. Point J is 3 units right and 4 units down. What are the coordinates of J?

a. (3,4) c. (3,-4)

b. (-3,4) d. (-3,-4)

10. A mountain biker completes a 35-mile track in 2.5 hours. What is the mountain biker's speed?

a. 12 miles/hour c. 14 miles/hour

b. 35 miles/hour d. 87.5 miles/hour

11. A fish is swimming at a depth of 12 feet. A scuba diver is closer to the surface. Which describes the depth of the scuba diver?

a. depth of greater than -12 feet

b. depth of greater than 12 feet

c. depth of less than 12 feet

d. depth of less than -12 feet

12. Which shows an equivalent expression to $6x+8x$?

a. $3\left(2x\right)+4(2x)$ c. $7(4x)$

b. $15x$ d. $14x^{2}$

13. A blue ribbon is $\frac{6}{9}$ yard long. A pink ribbon is $\frac{1}{3}$ as long as the blue ribbon. How long is the pink ribbon?

a. $\frac{1}{3}$ yard c. $\frac{2}{9}$ yard

b. $\frac{1}{2}$ yard d. $1\frac{1}{2}$ yards

14. What is the solution to $6x\leq 24$?

a. $x<4$ c. $x\leq 4$

b. $x<18$ d. $x\leq 144$

15. Kelsey can make 2 loaves of bread with 6 cups of flour. How many loaves of bread can she make with 24 cups of flour?

a. 4 loaves c. 8 loaves

b. 12 loaves d. 36 loaves

16. Kevin burns 75 calories for every 15 minutes he rides his bicycle. At that rate, how many calories will Kevin burn if he rides his bicycle for 90 minutes?

a. 12.5 calories c. 375 calories

b. 225 calories d. 450 calories

17. Mr. Smith bought 5 new pairs of socks. He paid $21.25 for the five pairs. How much does one pair of socks cost?

a. $4.01 c. $5.23

b. $4.25 d. $106.25

18. The Atlanta Journal Constitution reported that $\frac{7}{10}$ of residents voted in the city election. What percent of residents voted?

a. 700% c. 7%

b. 70% d. 0.7%

19. 12 is 30% of what number?

a. 18 c. 40

b. 36 d. 400

20. Find a set of 5 items that has a range of 9, a mean of 15, a median of 14, and a mode of 11.

a. 11, 11, 13, 15, 20

b. 5, 11, 14, 14, 31

c. 11, 11, 14, 19, 20

d. 6, 10, 14, 15, 15