GA Milestone Review #3

**This is due TUESDAY, April 12th for a formative grade.**

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

 20:45

a. $\frac{9}{13}$ c. $\frac{13}{9}$

b. $\frac{4}{9}$ d. $\frac{9}{4}$

2. Justin bought a box of candy with *x* pieces. He ate 14 of them. Which expression represents the number of pieces left?

a. $x-14$ c. $x÷14$

b. $14+x$ d. $14x$

3. What is $7×7×7×7$ written in exponential form?

a. 28 c. 2401

b. $7^{4}$ d. $4^{7}$

4. Josh is a personal trainer. He lifts weights for $\frac{1}{2}$ hour before each of his sessions. If he had 3 sessions last week, how many hours did he lift weights?

a. $\frac{1}{3}$ hour c. $\frac{3}{4}$ hour

b. $1\frac{1}{2}$ hours d. 6 hours

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

a. │8│ c. 8

b. -│8│ d. │-8│

6. Julie works at the Candy Boutique making candy arrangements. Each arrangement must have the same number of truffles and the same number of caramels. If she has 16 truffles and 24 caramels, and she uses all the pieces of candy, what is the greatest number of arrangements she can make?

a. 2 c. 6

b. 3 d. 8

7. Dr. Smith measured the length and weight of a frog. Which units is he most likely to use?

a. feet, pounds c. inches, ounces

b. feet, ounces d. inches, pounds

8. Kyle needs $5^{3}$ tiles to complete his mosaic. How many tiles does he need?

a. 15 tiles c. 125 tiles

b. 25 tiles d. 625 tiles

9. Luke runs 7.2 miles every day. How far does he run in 5 days?

a. 12.2 miles c. 43.2 miles

b. 36 miles d. 50.4 miles

10. In which quadrant is the point (-7, 3)?

a. Quadrant I c. Quadrant III

b. Quadrant II d. Quadrant IV

11. A piece of wood measuring 42 inches was cut into equal pieces. If each piece was 2.8 inches long, how many pieces were cut?

a. 10 pieces c. 14 pieces

b. 12 pieces d. 15 pieces

12. In which equation does $n=8$?

a. $n+25=17$ c. $7.8-n=0.2$

b. $7=56n$ d. $\frac{7}{8}n=7$

13. A yellow rope is $\frac{3}{4}$ yard long. A white rope is $\frac{1}{2}$ as long as the yellow rope. How long is the white rope?

a. $\frac{1}{4}$ yard c. $\frac{3}{8}$ yard

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

14. What is the solution to $3x\geq 24$?

a. $x>8$ c. $x\geq 8$

b. $x>21$ d. $x\geq 72$

15. Jenna and Emerson are comparing their sea shell collections. Over the past year, Jenna collected 4 more than 2 times as many as Emerson. Jenna has 42 shells. The equation to find the number of shells Emerson collected is 2s+4=42. Which is a solution to this equation?

a. 80 shells c. 23 shells

b. 76 shells d. 19 shells

16. Griffin is selling orange juice before the beginning of a morning swim meet. If he has 18 pints of juice, how many 1-cup servings can he sell? (1pint=2cups)

a. 9 cups c. 72 cups

b. 36 cups d. 144 cups

17. Gary needs $r$ colored pencils in addition to the 12 pencils he already has. Which expression shows the number of pencils Gary needs?

a. $12÷r$ c. $12+r$

b. $12-r$ d. $12r$

18. Find the quotient of $2488÷12$.

a. $27\frac{1}{3}$ c. $207\frac{1}{3}$

b. $2,476$ d. $2,500$

19. In which quadrant does point (12,3) lie?

a. Quadrant I c. Quadrant III

b. Quadrant II d. Quadrant IV

20. What is the solution to $x+22>35$?

a. $x<13$ c. $x>13$

b. $x<57$ d. $x>57$