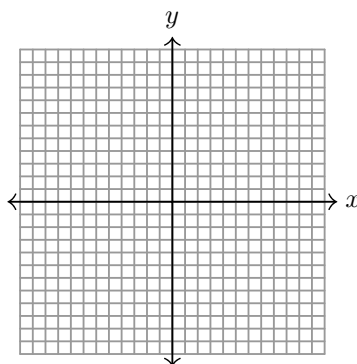


Name _____

Free Time

1. _____ Only 64% of the students in Ms. Kreeger's class passed both of the two most recent tests. On the most recent test, 80% of the students passed. What percent of students who passed the most recent test also passed the previous test?
2. _____ Mike wrote a list of six positive integers on his paper. He chose the first and second integers randomly, but the third integer was the sum of the first and second, and each of the remaining integers was the sum of the two previous integers in the list. He then found the sum of all six integers. What is the ratio of the fifth integer in his list to this sum? Express your answer as a common fraction.
3. _____ If $f(x) = 2x - 3$ and $g(x) = \frac{x-3}{2}$, what is $f(g(3))$?
4. _____ Where Kyle lives, there is a 4.75% tax rate, so a dresser priced at \$96 would cost \$100.56 with tax. Where Kendra lives, a \$96 item costs \$102 with tax. What percent is the tax rate where Kendra lives? Express your answer to the nearest hundredth.
5. _____ In a small town all the registered pets are either rabbits or dogs. In a recent parade 65% of the 840 registered pets participated. If 180 registered rabbits participated, how many registered dogs participated?
6. _____ Ray's age is half his sister's age, and his age is the square root of one-third their grandfather's age. In 5 years, Ray will be two-thirds as old as his sister will be then. What is the ratio of Ray's sister's age to their grandfather's age right now? Express your answer as a common fraction.
7. _____ Jackie, Karen and Lex helped Mrs. Jones with spring cleaning. Jackie worked $5\frac{1}{2}$ hours, Karen worked 3 hours and Lex worked $1\frac{1}{2}$ hours. Mrs. Jones paid them a total of \$75.00. If each worker received the same amount per hour, how much was Jackie paid?

8. _____ A line containing the points $(-8, 9)$ and $(-12, 12)$ intersects the x -axis at point P . What is the x -coordinate of point P ?



9. _____ After a ball is dropped, the rebound height of each bounce is 80% of the height of the previous bounce. The height of the first bounce is 5 ft. What is the height of the sixth bounce of this ball? Express your answer as a decimal to the nearest tenth.
10. _____ How many minutes faster will Jacob complete a 100-mile drive traveling at a rate of 65 miles per hour than if he traveled at a rate of 55 miles per hour? Express your answer to the nearest whole number.