

Math Lesson 1

The math part on the ACT is 60 questions in 60 minutes

You only need to get 31 or 32 correct to score a **21!**

Math is the only section that has 5 possible answers.

1. A baker can make 20 doughnuts in an hour. How many doughnuts can he make in 3 hours?
 - A. 40
 - B. 60
 - C. 80
 - D. 600
 - E. 800

2. A car averages 37 miles per gallon. If gas cost \$4.04 per gallon, which of the following is closest to how much gas would cost for the car to travel 3,737 miles?
 - A. \$44.40
 - B. \$109.08
 - C. \$118.81
 - D. \$408.04
 - E. \$444.44

3. Melissa knows that 30 miles per hour is equivalent to 44 feet per second. If Melissa drives at a speed of 70 miles per hour, which of the following is closest to her speed in feet per second?
 - A. 31
 - B. 48
 - C. 103
 - D. 127
 - E. 1027

4. What value of x solves the following proportion? $\frac{9}{6} = \frac{x}{8}$
 - A. 5
 - B. $6\frac{3}{4}$
 - C. $10\frac{1}{2}$
 - D. 11
 - E. 12

5. Marcus's favorite casserole requires 3 eggs and makes 6 servings. Marcus will modify the recipe by using 5 eggs and increasing all other ingredients in the recipe proportionally. What is the total number of servings the modified recipe will make?
- A. 6
 - B. 8
 - C. 10
 - D. 12
 - E. 15
6. In Cherokee County, the fine for speeding is \$17 for each mile per hour the driver is traveling over the speed limit. In Cherokee County, Kirk was fined \$221 for speeding on a road with a posted speed limit of 30 mph. Kirk was fined for traveling at what speed, in miles per hour?
- A. 13
 - B. 17
 - C. 43
 - D. 47
 - E. 60
7. Mr. Lewis has an order for 200 t-shirts. He can make 8 t-shirts an hour. How long will it take him to produce half of the order?
- A. 6 hours
 - B. $8\frac{1}{2}$ hours
 - C. $12\frac{1}{2}$ hours
 - D. 25 hours
 - E. 100 hours
8. If basis points are defined so that 5 percent is equal to 100 basis points, the 7.5 % is how many basis points greater than 5.5%?
- A. .04
 - B. 40
 - C. 400
 - D. 4,000
 - E. 40,000

