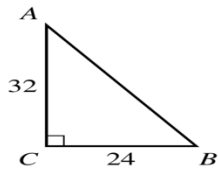


Math Lesson 2

1. What is the slope of the line by the equation  $3x=30-5y$ ?
  - A. 5
  - B. 3
  - C.  $3/5$
  - D.  $-3/5$
  - E. -3
2. What is the equation of a line that is parallel to  $3x + 5y = 8$ ?
  - A.  $y = 5/6 x - 10$
  - B.  $y = 3/8 x - 5$
  - C.  $y = 5/3 x + 5$
  - D.  $y = -3/5 x + 10$
  - E.  $y = 3/4 x - 2$
3. What line is perpendicular to  $x + 3y = 6$ ?
  - A.  $y = 6x - 3$
  - B.  $y = -1/3 x - 4$
  - C.  $y = 3x + 2$
  - D.  $y = 2x + 1$
  - E.  $y = 2/3 x + 6$
4. Write the following equation in standard form:  $3y = 5x + 21$ 
  - A.  $5x + 3y = 21$
  - B.  $-5x + 3y = 21$
  - C.  $y = 5/3 x + 7$
  - D.  $y = 5/3 x + 21$
  - E.  $y = 3/5 x + 15$
5. A boat travels to an oil rig which is 9 miles east and 12 miles north of the boats original position. How many miles is the oil rig from the original position?
  - A. 3
  - B.  $\sqrt{63}$
  - C. 15
  - D. 21
  - E. 225

6. The length of the 2 legs of right triangle  $\triangle ABC$  shown below are given in inches. The midpoint of  $AB$  is how many inches from  $A$ ?



- A. 16  
B. 20  
C. 21  
D. 28  
E. 40
7. In  $\triangle ABC$ , the sum of the measures of  $\angle A$  and  $\angle B$  is 47 degrees. What is the measurement of  $\angle C$ ?
- A. 47 degrees  
B. 86 degrees  
C. 94 degrees  
D. 133 degrees  
E. 143 degrees
8. Sara had the following test scores: 100, 86, 62, 100 and 58. The teacher allows you to drop your lowest test grade. What is Sara's average?
- A. 64  
B. 78  
C. 87  
D. 91  
E. 98
9. What is the greatest common factor or 42, 126, 210?
- A. 2  
B. 6  
C. 14  
D. 21  
E. 42
10. What is the least common denominator for adding the fractions  $\frac{4}{35}$ ,  $\frac{1}{56}$  and  $\frac{3}{16}$ ?
- A. 80  
B. 560  
C. 1,960  
D. 4,480  
E. 31,360