11. What is the slope of the line through $(-2,1)$ and $(2,-5)$ in the standard (x,y) coordinate plane?

    A. $\frac{3}{2}$

    B. 1

    C. -1

    D. $-\frac{3}{2}$

    E. -4

12. In Cherokee County, the fine for speeding is $17 for each mile per hour the driver is traveling over the posted 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?

    F. 13
    G. 17
    H. 43
    J. 47
    K. 60

13. What is the sum of the solutions of the 2 equations below?

$$8x = 12$$
$$2y + 10 = 22$$

    A. $2\frac{2}{5}$

    B. $7\frac{1}{2}$

    C. 9

    D. 10

    E. $17\frac{1}{2}$

14. The average of 5 distinct scores has the same value as the median of the 5 scores. The sum of the 5 scores is 420. What is the sum of the 4 scores that are NOT the median?

    F. 315
    G. 320
    H. 336
    J. 350
    K. 360

15. What is the value of the expression below?

$$\Big|\,|-8 + 4| - |3 - 9|\,\Big|$$

    A. -18
    B. -2
    C. 0
    D. 2
    E. 18

16. Which of the following expressions is equivalent to $x^{\frac{2}{3}}$?

   F. $\dfrac{x^2}{3}$

   G. $\dfrac{x(2)}{3}$

   H. $\sqrt{x^3}$

   J. $\sqrt[3]{x}$

   K. $\sqrt[3]{x^2}$

17. In the standard (x,y) coordinate plane, what is the slope of the line given by the equation $4x = 7y + 5$?

   A. $-\dfrac{4}{7}$

   B. $\dfrac{4}{7}$

   C. $\dfrac{7}{4}$

   D. 4

   E. 7

18. For which of the following conditions will the sum of integers m and n *always* be an odd integer?

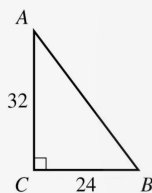   **F.** m is an odd integer.
   G. n is an odd integer.
   H. m and n are both odd integers.
   J. m and n are both even integers.
   K. m is an odd integer and n is an even integer.

19. The lengths of the 2 legs of right triangle $\triangle ABC$ shown below are given in inches. The midpoint of $\overline{AB}$ is how many inches from A ?

   A. 16
   B. 20
   C. 21
   D. 28
   E. 40

20. In $\triangle DEF$, the length of $\overline{DE}$ is $\sqrt{30}$ inches, and the length of $\overline{EF}$ is 3 inches. If it can be determined, what is the length, in inches, of $\overline{DF}$?

   F. 3

   G. $\sqrt{30}$

   H. $\sqrt{33}$

   J. $\sqrt{39}$

   K. Cannot be determined from the given information