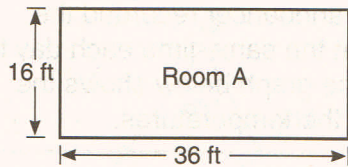


Question 11 refers to the following figure.



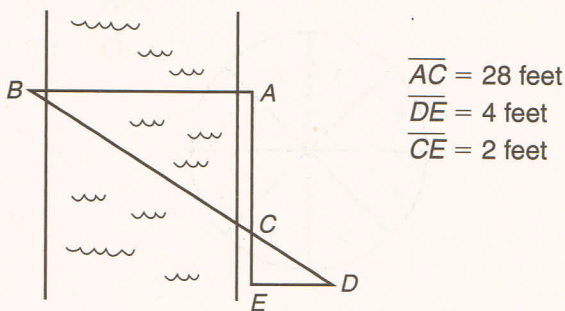
11. Room B has the same area as Room A, shown above. If Room B is square, what is the length in feet of each of its sides?

- (1) 16
- (2) 23
- (3) 24
- (4) 26
- (5) 36

12. The repairs to Barbara's car will cost \$875 for labor and \$1400 for new parts. Used parts cost 60 percent less than new parts. If Barbara asks for used parts, what will be the total cost of her repairs?

Mark your answer in the circles in the grid on your answer sheet.

Question 13 refers to the following drawing.



13. To find the width of the river, a surveyor made the measurements shown in the drawing. Lines  $AB$  and  $DE$  are parallel. What is the width in feet of  $\overline{AB}$ , the shortest distance across the river?

Mark your answer in the circles in the grid on your answer sheet.

14. The 48 employees of Young Construction Company were given a choice of three different retirement plans. If twice as many employees chose Plan A as chose Plan B, how many employees chose Plan B?

- (1) 12
- (2) 16
- (3) 24
- (4) 32
- (5) Not enough information is given.

15. Specialty Graphics uses 3 cartons of copier paper every 5 days. Which equation could be used to find out how many days ( $d$ ) it will take the company to use 18 cartons of paper?

- (1)  $\frac{5(18)}{3} = d$
- (2)  $\frac{3(5)}{18} = d$
- (3)  $5(3d) = 18$
- (4)  $\frac{3(18)}{d} = 5$
- (5)  $5(18)(3) = d$

16. Max's company requires him to record the exact time that he starts and ends each repair job. On one job, he worked from 10:50 A.M. to 11:26 A.M. What fraction of an hour did he spend on the repair?

- (1)  $\frac{1}{36}$
- (2)  $\frac{1}{10}$
- (3)  $\frac{3}{5}$
- (4)  $\frac{5}{8}$
- (5)  $\frac{2}{3}$

17. Two lines intersect at a point with coordinates of  $(-4, 2)$ . Show the location of the point.

Mark your answer on the coordinate plane grid on your answer sheet.