

NC EMPT'S
QUESTION?
of the week

Circle the one best answer. Justify your answer by showing all work below.

29. In a right triangle, the measure of one leg is $\sqrt{6}$. The measure of the hypotenuse is 5. Find the measure of the other leg.

A. $5 - \sqrt{6}$

B. $\sqrt{31}$

C. $\sqrt{19}$

D. $5 + \sqrt{6}$

E. 4

Last Week's Answer

28. If the average weight of four football players listed in the table below is 250 pounds, what is the weight, in pounds, of Player D?

| Player | Weight in lbs |
|--------|---------------|
| A | 270 |
| B | 230 |
| C | 240 |
| D | ? |

A. 220

B. 230

C. 240

D. 250

E. 260

Solution: Let x represent the weight, in pounds, of Player D. To find the average of 250 pounds, the sum of the four weights must be calculated and then the sum divided by the number of players.

$$\frac{270 + 230 + 240 + x}{4} = 250$$

$$\frac{740 + x}{4} = 250$$

$$740 + x = 1000$$

$$x = 260$$

Each week, we'll reveal the answer to the previous week's question!

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