



It took a copier from 11:12 am until 11:22 am the same day to complete an order that required 45 copies. If the next order is begun at 5:58 pm and requires 135 copies, what is the earliest it will be done?

A. 5:28 pm B. 6:28 pm C. 6:58 pm D. 6:32 pm E. 6:18 pm

Lost Week's Answer

How long is the hypotenuse c of a right triangle whose leg b measures 4h units, and whose leg a measures 2h units (h>0)?

C.  $2h\sqrt{5}$ 

A.  $4h\sqrt{5}$  B.  $3h\sqrt{5}$ 

D.  $5h\sqrt{2}$ 

Solution: Since this is a right triangle and the lengths of two sides are given, use the Pythagorean Theorem to find the length of the third side in terms of h.

E.  $\frac{3h\sqrt{5}}{2}$ 



 $a^2 + b^2 = c^2$ 

$$(2h)^{2} + (4h)^{2} = c^{2}$$
  

$$4h^{2} + 16h^{2} = c^{2}$$
  

$$20h^{2} = c^{2}$$
  

$$\sqrt{20h^{2}} = \sqrt{c^{2}}$$
  

$$2h\sqrt{5} = c$$

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

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