

Alg 2 PSAT/SAT practice

Wed, March 25, 2020

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Alma bought a laptop computer at a store that gave a 20 percent discount off its original price. The total amount she paid to the cashier was p dollars, including an 8 percent sales tax on the discounted price. Which of the following represents the original price of the computer in terms of p?

- A) 0.88p
- B) $\frac{p}{0.88}$
- C) (0.8)(1.08)p
- D) $\frac{p}{(0.8)(1.08)}$



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A) 0.88p

20% discount

* price after discount = 0.8x

C) (0.8)(1.08)p

X = original price

8% sales tax 100+ BE 108% of the price

TOTAL final price = 108% of discount price

100-20 = 80% of original price

P = (1.08)(0.8x)

Now solve for p (orig price)