

PROBLEM OF THE WEEK

What is the maximum possible value of the median number of cups of coffee bought per customer on a day when Sundollars Coffee Shop sells 477 cups of coffee to 190 customers, and every customer buys at least one cup of coffee?

A: 1.5 B: 2 C: 2.5 D: 3 E: 3.5



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Problem of the week!

Three inhabitants of the planet Zog met in a crater and counted each other's ears. Imi said, "I can see exactly 8 ears"; Dimi said, "I can see exactly 7 ears"; Timi said, "I can see exactly 5 ears". None of them could see their own ears. How many ears does Timi have?



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The solution will be posted online next week

Problem Of The Week!

The Queen of Spades always lies for the whole day or always tells the truth for the whole day. Which of these statements can she never say?

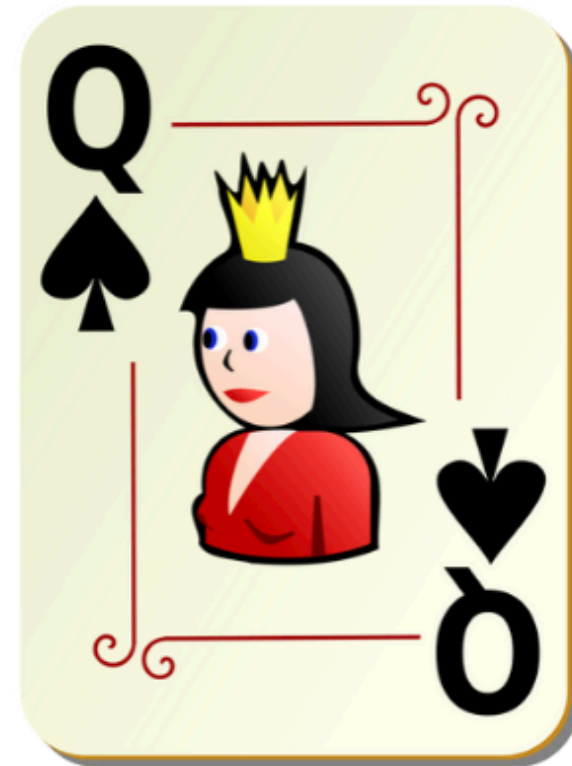
A: "Yesterday, I told the truth."

B: "Yesterday, I lied."

C: "Today, I tell the truth."

D: "Today, I lie."

E: "Tomorrow, I shall tell the truth."

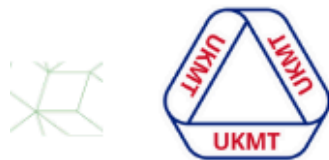
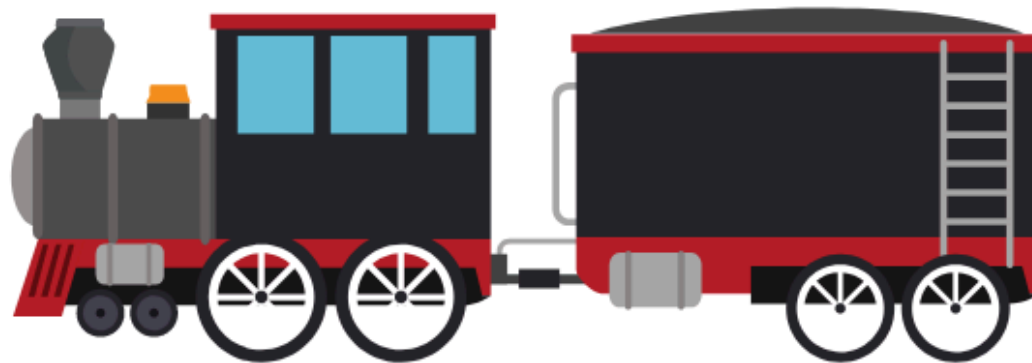


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Problem of the week!

A train travelling at constant speed takes five seconds to pass completely through a tunnel which is 85 m long, and eight seconds to pass completely through a second tunnel which is 160 m long.

What is the speed of the train?



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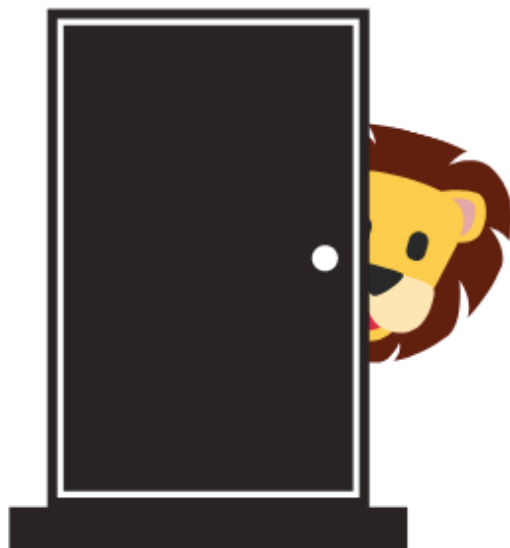
Problem of the week!

A lion is hidden in one of three rooms. A note on the door of room 1 reads "The lion is here". A note on the door of room 2 reads "The lion is not here".

A note on the door of room 3 reads " $2 + 3 = 2 \times 3$ ".

Only one of these notes is true.

In which room is the lion hidden?



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Problem of the week!



When I glanced at my car milometer it showed 24942, a palindromic number. Two days later, I noticed that it showed the next palindromic number. How many miles did my car travel in those two days?

A 100 **B** 110 **C** 200 **D** 220 **E** 1010



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Problem of the week!

Julie and her daughters Megan and Zoey have the same birthday. Today, Julie is 32, Megan is 4 and Zoey is 1.

How old will Julie be when her age is the sum of the ages of Megan and Zoey?



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