



Random Variables

$$E(x) = 6 \times \frac{1}{3} - 3 \times \frac{2}{3} \neq 0 \text{ }$$

because:

 $P(\text{divisive by}) = \frac{1}{3}, P(\text{bot divise by }) = \frac{2}{3}.$ 
 $E(x) = 5 \times \frac{6}{25} + 0 \times \frac{4}{25} - 6 \times \frac{15}{25} = 12.$ 

because:

 $P(\text{add up to divise by }) = \frac{6}{25}$ 
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 $P(\text{break eval}) = \frac{4}{25}$ 
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