

**1)** ASSUMING THAT BIRTHS ARE EQUALLY LIKELY ON ANY DAY OF THE WEEK, FIND THE PROBABILITY THAT THE NEXT PERSON YOU MEET WAS BORN ON A WEEKDAY.

LET "A" BE THE EVENT THAT THE DAY IS A WEEKDAY -MONDAY, TUESDAY, WEDNESDAY, THURSDAY, OR FRIDAY. SO N(A)=5.



LET "U" BE ALL DAYS IN A WEEK. THERE ARE SEVEN DAYS IN A WEEK, SO N(U)=7

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 $\mathsf{P} = \frac{\mathsf{N}(\mathsf{A})}{\mathsf{N}(\mathsf{U})} = \frac{5}{7}$ 

# **2)** ONE LETTER IS SELECTED AT RANDOM FROM THE WORD 'UNNECESSARY'. FIND THE PROBABILITY OF SELECTING:

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#### B) AN E



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## **N(A)=2 N(U)=11** $P = \frac{N(A)}{N(U)} = \frac{2}{11}$

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E.E.



**3)** A DIE IS THROWN ONCE. FIND THE PROBABILITY OF OBTAINING:

## **A**] AN EVEN NUMBER

## n(A)= 3 n(U)=6

$$\mathsf{P} = \frac{\mathsf{n}(\mathsf{A})}{\mathsf{N}(\mathsf{U})} = \frac{3}{6} = \frac{1}{2}$$

E St





#### **C)** A FACTOR OF 12 ->1,2,3,4,6

N(A)=5 N(U)=6



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$$\mathsf{P} = \frac{\mathsf{n}(\mathsf{A})}{\mathsf{N}(\mathsf{U})} = \frac{5}{6}$$

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#### D) A NUMBER LESS THAN 3

N(A)=2 N(U)=6



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$$\mathsf{P} = \frac{\mathsf{n}(\mathsf{A})}{\mathsf{N}(\mathsf{U})} = \frac{2}{6} = \frac{1}{3}$$

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