

NCERT Exemplar Solutions by Dev Anoop (Bathinda)  
Probability, Ex 13.3

$$\textcircled{32} \quad \text{outcomes} = (101 - 2) + 1$$

$$= 100$$

$$P(\text{even number}) = \frac{50}{100} = \frac{1}{2}$$

square numbers are

4, 9, 16, 25, 36, 49, 64, 81, 100

$$P(\text{square number}) = \frac{9}{100}$$

$$\textcircled{33} \quad P(\text{consonant}) = \frac{21}{26}$$

$$\textcircled{34} \quad \text{total no. of envelopes} = 1000$$

$$\text{envelopes with Rs 100 prize} = 10$$

$$\text{envelopes with Rs 50 prize} = 100$$

$$\text{envelopes with Rs 10 prize} = 200$$

$$\text{envelopes without prize} = 1000 - 310$$

$$= 690$$

$$P(\text{no prize}) = \frac{690}{1000}$$

$$= \frac{69}{100}$$