

Probability

H, T f(H)+p(N+H)=1 $p(H)=\frac{1}{2}$ $p(N+H)=\frac{1}{2}$







Head, Tail

(ii) Throwing adice

E= no Showing on dice is even

$$P(E) = \frac{3}{6} = \boxed{\frac{1}{2}}$$

$$P(oddno) = \frac{3}{6} = \frac{1}{2} P(\xi) = 0.5$$

$$0 \le P(E) \le 1$$
 $P(E) = 1.1 \times 0^{-1} \le P(E) \le 100^{-1}$



Coin



①	Н, Т
	P(H)=1
	P(1) = 1/2
	P(NO+T) = P(H) = 1

HH, TT 5 HT 5 TH.

$$P(1head) = \frac{3}{4}$$

$$P(2tai) = \frac{1}{4}$$

$$P(2head) = \frac{1}{4}$$

P(atleast thead) =
$$\frac{3}{4}$$
P(at most thead) = $\frac{3}{4}$



Dice



(i)
$$P(oddno) = \frac{3}{6} = \frac{1}{2}$$

(ii)
$$P(e_{ven no}) = \frac{3}{6} = \frac{1}{2}$$

(li)
$$P(\text{Prime no}) = \frac{3}{6} = \frac{1}{2}$$

(iv)
$$P(n_0 \angle 7) = \frac{6}{6} = 1$$

$$b\left(0 > e\right) = \frac{e}{0} = 0$$

$$P(34 no < 6) = \frac{2}{6} = \frac{1}{3}$$



Double Dice







$$(5,1)$$
 $(5,2)$ $(5,3)$ $(5,4)$ $(5,5)$ $(5,6)$

(11)
$$P(A+B=10)=\frac{3}{36}=\frac{1}{12}$$

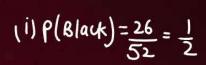
(iii)
$$P(A+B=7)=\frac{6}{36}=\frac{1}{6}$$



Playing Cards

P(Black Jack)= 7





(ii)
$$P(Red) = \frac{26}{52} = \frac{1}{2}$$

P(King of spade) = 1

P(Red king)= \frac{2}{52} 13 Diamond

Plakenof Dia) = 1 52



face card

13 Heart

King = 4

Jack = 4

13 Spade



 $P(Rid face (ard) = \frac{6}{52} = \frac{3}{26}$



13 446





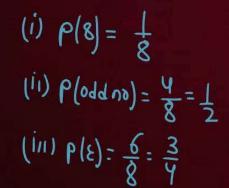
QUESTION





A game of chance consists of spinning an arrow which comes to rest pointing at one of the numbers 1, 2, 3, 4, 5, 6, 7, 8 (see given fig.), and these are equally likely outcomes. What is the probability that it will point at

- (i) 8? V
- (ii) an odd number?
- (iii) a number greater than 2? 🗸
- (iv) a number less than 9?~









The probability that a non-leap year selected at random will contains 53 Mondays.