

## Pack of Cards – Simple Probability Questions

What is the probability of choosing at random one of the following cards from a normal pack of 52 playing cards?

1. A red card
2. A black card or 'not a red card'
3. A spade
4. Not a spade
5. An ace
6. Not an ace
7. The ace of spades
8. A picture card
9. A number card or 'not a picture card'
10. A card that is either a heart or a club
11. A card that is neither a heart or a club
12. A 4 or 5
13. A 4 or 5 but not a spade
14. An even numbered card
15. A card that would be higher than a 3, Aces high
16. A card that would be higher than a 7, Aces high
17. A card that would be higher than a Jack, Aces high
18. A card that would match or be higher than a 7, Aces high

## Pack of Cards – Simple Probability Questions

What is the probability of choosing at random one of the following cards from a normal pack of 52 playing cards?

1.	A red card	$26/52$	$1/2$
2.	A black card or 'not a red card'	$26/52$	$1/2$
3.	A spade	$13/52$	$1/4$
4.	Not a spade	$39/52$	$3/4$
5.	An ace	$4/52$	$1/13$
6.	Not an ace	$48/52$	$12/13$
7.	The ace of spades	$1/52$	
8.	A picture card	$12/52$	$3/13$
9.	A number card or 'not a picture card'	$40/52$	$10/13$
10.	A card that is either a heart or a club	$26/52$	$1/2$
11.	A card that is neither a heart or a club	$26/52$	$1/2$
12.	A 4 or 5	$8/52$	$2/13$
13.	A 4 or 5 but not a spade	$6/52$	$3/26$
14.	An even numbered card	$20/52$	$5/13$
15.	A card that would be higher than a 3, Aces high	$44/52$	$11/13$
16.	A card that would be higher than a 7, Aces high	$28/52$	$7/13$
17.	A card that would be higher than a Jack, Aces high	$12/52$	$3/13$
18.	A card that would match or be higher than a 7, Aces high	$32/52$	$8/13$

## Dice – Simple Probability Questions

What is the probability of rolling from a normal 6 sided die?

1. A 6
2. Higher than a 4
3. An odd number
4. A factor of 24

What is the probability of rolling the following from a 4 sided die?

5. A4
6. An even number
7. Higher than 3
8. A factor of 24

What is the probability of rolling the following from a 10 sided die?

9. A 10
10. A 6 or higher
11. Less than a 5
12. A 5 or less
13. A factor of 24
14. A number that when spelt begins with a 't'

What is the probability of rolling the following from a 12 sided die?

15. A 12
16. Higher than a 7
17. A factor of 24
18. A teen number
19. A number than when spelt with a 't'

## Dice – Simple Probability Questions

What is the probability of rolling from a normal 6 sided die?

- |    |                                |       |       |
|----|--------------------------------|-------|-------|
| 1. | A 6                            | $1/6$ |       |
| 2. | Higher than a 4                | $2/6$ | $1/3$ |
| 3. | An odd number                  | $3/6$ | $1/2$ |
| 4. | A factor of 24 (1, 2, 3, 4, 6) | $5/6$ |       |

What is the probability of rolling the following from a 4 sided die?

- |    |                             |            |       |
|----|-----------------------------|------------|-------|
| 5. | A4                          | $1/4$      |       |
| 6. | An even number              | $2/4$      | $1/2$ |
| 7. | Higher than 3               | $1/4$      |       |
| 8. | A factor of 24 (1, 2, 3, 4) | 1, certain |       |

What is the probability of rolling the following from a 10 sided die?

- |     |  |        |       |
|-----|--|--------|-------|
| 9.  | A 10                                       | $1/10$ |       |
| 10. | A 6 or higher                              | $5/10$ | $1/2$ |
| 11. | Less than a 5                              | $4/10$ | $2/5$ |
| 12. | A 5 or less                                | $5/10$ | $1/2$ |
| 13. | A factor of 24 (1, 2, 3, 4, 6, 8)          | $6/10$ | $3/5$ |
| 14. | A number that when spelt begins with a 't' | $3/10$ |       |

What is the probability of rolling the following from a 12 sided die?

- |     |                                       |        |       |
|-----|---------------------------------------|--------|-------|
| 15. | A 12                                  | $1/12$ |       |
| 16. | Higher than a 7                       | $5/12$ |       |
| 17. | A factor of 24 (1, 2, 3, 4, 6, 8, 12) | $7/12$ |       |
| 18. | A teen number                         | 0      |       |
| 19. | A number than when spelt with a 't'   | $4/12$ | $1/3$ |