Probability of Simple Events

A box contains 6 black crayons, 4 blue crayons, 5 red crayons, 3 yellow crayons, and 2 white crayons. One crayon is chosen at random. Find the probability of the following:

1. P(black) = _____

2. P(blue) = _____

3. P(not white) = _____

4. P(pink) = _____

5. P(black or blue) = _____

6. P(blue, red, or yellow) = _____

A bag contains 4 black, 8 red, 5 orange, and 7 green jellybeans. A student selects one jellybean at random. Find the probability of the following:

7. P(red) = _____

8. P(not green) = _____

9. P(black or orange) = _____

10. P(blue) = _____

11. P(not yellow) = _____

12. P(red, green or orange) = _____

Numbers from 1 to 30 are painted on ping pong balls and mixed by a machine. One ball is selected at random. Find the probability of the following:

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

13. P(odd #) = _____

14. P(one-digit #) = _____

15. P(negative #) = _____

16. P(ending in 0) = _____

17. P(divisible by 6) = _____

18. P(two-digit #) = _____

19. P(1 or 30) = _____

20. P(greater than 17 but less than 26) = _____

Each letter of the word *p r o b a b i l i t i e s* is written on a slip of paper and shuffled in a bowl. A student selects one slip of paper at random. Find the probability of the following:

21. P(b) = _____

22. P(not a) = _____

23. P(u) = _____

24. P(vowel) = _____

25. P(i or l) = _____

26. P(not p or b) = _____

27. What is the probability of rolling a number divisible by 2 on a number cube? _____

28. What is the probability that a month picked at random ends with the letter y? _____