



STUDYDADDY

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1. One fair, six-sided die is rolled. What is the probability that it shows a 3?
(Round your answer to the nearest hundredth.)
2. One fair, six-sided die is rolled. What is the probability that it shows a 2 or a 4?
(Round your answer to the nearest hundredth.)
3. One fair, six-sided die is rolled. What is the probability that it shows an even number?
(Round your answer to the nearest tenth.)
4. Two fair, six-sided dice are rolled, one red and one green. What is the probability that the red die shows a 2 and the green die shows a 5?
(Round your answer to the nearest hundredth.)
5. Two fair, six-sided dice are rolled. What is the probability that one die shows a 1 and the other die shows a 6?
(Round your answer to the nearest hundredth.)
6. Two fair, six-sided dice are rolled. What is the probability that the sum of the dice is 6 or less?
(Round your answer to the nearest hundredth.)
7. A number of students were asked what the legal drinking age should be. The responses are given in the table below.

| | | | | | | | | | |
|----------------------|----|----|----|----|----|----|----|----|----|
| Drinking age | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| # respondents | 16 | 11 | 19 | 20 | 19 | 18 | 20 | 17 | 20 |

Based on these results, what is the probability that a student chosen at random thinks that the legal drinking age should be 19?
(Round your answer to the nearest hundredth.)

8. The table below shows the probability of picking a marble of a particular color from Jeremy's collection.

| | | | | | | | |
|--------|------|--------|--------|-------|------|--------|--------|
| x | Red | Orange | Yellow | Green | Blue | Indigo | Violet |
| $P(x)$ | 0.08 | 0.18 | 0.17 | 0.15 | 0.16 | 0.15 | 0.11 |

If a marble is chosen at random, what is the probability that it will *not* be yellow?
(Round your answer to two decimal places.)

9. A fair, 20-sided die is rolled. What is the probability of rolling a number greater than 11? Round your answer to the nearest hundredth.

10. The table below shows the number of mini-cupcakes of various flavors in a cupcake shop.

| Flavor | German Chocolate | Lemon Lavender | Red Velvet | Tiffany | Black & White | Oreo |
|--------------------|------------------|----------------|------------|---------|---------------|------|
| Number of cupcakes | 7 | 7 | 11 | 7 | 11 | 7 |

If one of these cupcakes is chosen at random, what is the probability that it is *not* a Tiffany? Round your answer to the nearest hundredth.

11. The number of households at various distances from a city center were reported in the table shown, where distances are given as percentiles of the distance from the center.

| Percentile distance from center | <5 | 5-25 | 25-50 | 50-75 | 75-95 | >95 |
|---------------------------------|-----|------|-------|-------|-------|-----|
| Number of households | 603 | 2417 | 3027 | 3018 | 2425 | 598 |

If one of these households is selected at random, what is the probability that it falls between the fifth and fiftieth percentiles? Round your answer to the nearest hundredth.



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