Independent, dependent and opposite events worksheet – Grade 6

Grade 6 · Mixed level · 20 questions · **Version X5379**

Name: _____ Date: _____ Score: ___ / 20

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1. Lucas is flipping a coin twice. What kind of events are these?
   A. Independent **B.** Dependent

2. The chance of winning is 25%. What is the chance of not winning, as a percent?
   Answer: _____

3. The probability of rain is 5/12. What is the probability of no rain? Write it in lowest terms.
   Answer: _____

4. Mateo is taking a cookie from a jar and eating it, then taking another. What kind of events are these?
   A. Independent **B.** Dependent

5. Mateo is picking a card, putting it back, then picking again. What kind of events are these?
   A. Independent **B.** Dependent

6. Hana is picking a marble and keeping it, then picking another. What kind of events are these?
   A. Independent **B.** Dependent

7. Ben is choosing a team captain, then a vice-captain from who is left. What kind of events are these?
   A. Independent **B.** Dependent

8. A jar has 6 red and 2 blue marbles. You pick one and keep it. It is red. How many marbles are left?
   Answer: _____

9. A bag contains 5 red and 7 blue beads. You pick one and keep it. It is red. How many beads are left?
   Answer: _____

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10. A box holds 6 red and 6 blue beads. You pick one and keep it. It is red. How many beads are left?

    Answer: _____

11. A bag contains 3 red and 2 blue counters. You pick one, put it back, and pick again. What is the probability of red both times? Write it in lowest terms.

    Answer: _____

12. A bag contains 4 red and 2 blue marbles. You pick one and keep it. It is red. How many marbles are left?

    Answer: _____

13. A box holds 7 red and 2 blue counters. You pick one, put it back, and pick again. What is the probability of red both times? Write it in lowest terms.

    Answer: _____

14. A jar has 7 red and 4 blue beads. You pick one, put it back, and pick again. What is the probability of red both times? Write it in lowest terms.

    Answer: _____

15. A bag contains 5 red, 6 blue and 3 green marbles. What is the probability of not picking green? Write it in lowest terms.

    Answer: _____

16. A box holds 3 red, 2 blue and 2 green beads. What is the probability of not picking green? Write it in lowest terms.

    Answer: _____

17. A jar has 5 red, 7 blue and 4 green counters. What is the probability of not picking green? Write it in lowest terms.

    Answer: _____

18. A box holds 5 red and 3 blue beads. You pick two without putting the first back. What is the probability of red, then blue? Write it in lowest terms.

    Answer: _____

19. A box holds 3 red and 3 blue marbles. You pick two without putting the first back. What is the probability both are red? Write it in lowest terms.

    Answer: _____

20. A bag contains 6 red and 7 blue beads. You pick two without putting the first back. What is the probability both are red? Write it in lowest terms.

    Answer: _____

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Answer key · Version X5379

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1. **A (Independent)**
2. **75%**
3. **7/12**
4. **B (Dependent)**
5. **A (Independent)**
6. **B (Dependent)**
7. **B (Dependent)**
8. **7**
9. **11**
10. **11**
11. **9/25**
12. **5**
13. **49/81**
14. **49/121**
15. **11/14**
16. **5/7**
17. **3/4**
18. **15/56**
19. **1/5**
20. **5/26**

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