Sample spaces and compound events worksheet – Grade 6

Grade 6 · Mixed level · 20 questions · **Version X5186**

Name: _____ Date: _____ Score: ___ / 20

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1. How many outcomes are there when you roll one number cube?

   Answer: _____

2. Ava has 4 shirts and 5 pairs of pants. How many different outfits can Ava make?

   Answer: _____

3. A menu has 5 main dishes and 4 drinks. How many meals of one dish and one drink are possible?

   Answer: _____

4. How many outcomes are there when you flip a coin and spin a spinner with 4 equal parts?

   Answer: _____

5. A menu has 3 main dishes and 4 drinks. How many meals of one dish and one drink are possible?

   Answer: _____

6. How many outcomes are there when you flip a coin and spin a spinner with 6 equal parts?

   Answer: _____

7. Liam has 2 shirts and 5 pairs of pants. How many different outfits can Liam make?

   Answer: _____

8. You roll two number cubes. How many outcomes give a sum greater than 8?

   Answer: _____

9. A pizza has one choice from each: 5 crusts, 5 sauces and 3 cheeses. How many pizzas are possible?

   Answer: _____

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10. Spinner A has the numbers 1 to 5 and spinner B has 1 to 3. How many outcomes give a sum of 6?

    Answer: _____

11. You roll two number cubes. How many ways can the sum be 5?

    Answer: _____

12. A pizza has one choice from each: 2 crusts, 6 sauces and 2 cheeses. How many pizzas are possible?

    Answer: _____

13. Spinner A has the numbers 1 to 3 and spinner B has 1 to 5. How many outcomes give a sum of 4?

    Answer: _____

14. You roll two number cubes. How many ways can the sum be 4?

    Answer: _____

15. You flip a coin and spin a spinner with 5 equal parts numbered from 1. What is the probability of tails and a 1? Write it in lowest terms.

    Answer: _____

16. You flip a coin and roll a number cube. What is the probability of heads and a number greater than 5? Write it in lowest terms.

    Answer: _____

17. You spin spinner A (1 to 2) and spinner B (1 to 4). What is the probability that both show 1? Write it as a fraction.

    Answer: _____

18. A locker code has 3 digits and each digit can be 1, 2, 3, 4 or 5. Digits can repeat. How many codes are possible?

    Answer: _____

19. A code is one letter from A, B, C followed by 2 digits, each 0 or 1. How many codes are possible?

    Answer: _____

20. You flip 3 coins. What is the probability that all land on heads? Write it in lowest terms.

    Answer: _____

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Answer key · Version X5186

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1. **6**
2. **20**
3. **20**
4. **8**
5. **12**
6. **12**
7. **10**
8. **10**
9. **75**
10. **3**
11. **4**
12. **24**
13. **3**
14. **3**
15. **1/10**
16. **1/12**
17. **1/8**
18. **125**
19. **12**
20. **1/8**

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