Math Test

Ratios

| 1. | What is the ratio of 8 to 12 in its simplest form? ○ A) 1:3 ○ B) 2:3 ○ C) 3:4 ○ D) 4:3 |
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| 2. | If the ratio of boys to girls in a class is 3:4, how many girls are there if there are 18 boys? o A) 24 o B) 21 o C) 18 o D) 12 |
| 3. | A recipe calls for 2 cups of sugar for every 5 cups of flour. How much sugar is needed if you use 15 cups of flour? Output Discrepsion of the cups of flour is a cups of flour. How much sugar is needed if you use 15 cups of flour? Discrepsion of flour. How much sugar is needed if you use 15 cups of flour. How much sugar is needed if you use 15 cups of flour. How much sugar is needed if you use 15 cups of flour? Discrepsion of flour is needed if you use 15 cups of flour. How much sugar is needed if you use 15 cups of flour? Discrepsion of flour is needed if you use 15 cups of flour? Discrepsion of flour is needed if you use 15 cups of flour? Discrepsion of flour is needed if you use 15 cups of flour? Discrepsion of flour is needed if you use 15 cups of flour? Discrepsion of flour is needed if you use 15 cups of flour? Discrepsion of flour is needed if you use 15 cups of flour? Discrepsion of flour is needed if you use 15 cups of flour. Discrepsion of flour is needed if you use 15 cups of flour is needed if you use 15 cups of flour. |
| 4. | In a school, the ratio of teachers to students is 1:20. If there are 500 students, how many teachers are there? o A) 20 o B) 25 o C) 30 o D) 50 |
| 5. | A map uses a scale of 1:100. If the actual distance between two towns is 50 kilometers, what is the distance on the map? o A) 50 centimeters o B) 0.5 centimeters o C) 5 centimeters o D) 10 centimeters |

Experimental Probability

| | probability of flipping heads? |
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| | ○ A) 0.3○ B) 0.5 |
| | o C) 0.6 |
| | o D) 0.7 |
| | |
| 7. | A die is rolled 40 times, and the number 4 appears 10 times. What is the |
| | experimental probability of rolling a 4? |
| | ○ A) 1/2○ B) 1/4 |
| | o C) 1/3 |
| | o D) 1/6 |
| | |
| Q | In a survey, 80 out of 200 people said they prefer chocolate ice cream. What is |
| 0. | the experimental probability that a randomly selected person prefers chocolate |
| | ice cream? |
| | ○ A) 1/4○ B) 2/5 |
| | ∘ C) 4/5 |
| | o D) 1/5 |
| | |
| 0 | A bag contains 5 red marbles, 7 blue marbles, and 8 green marbles. If you |
| ٦. | randomly pick one marble from the bag 40 times and get a red marble 10 times, |
| | what is the experimental probability of picking a red marble? |
| | ○ A) 1/2○ B) 1/4 |
| | o C) 1/3 |
| | o D) 1/5 |
| | |
| 10 | . Out of 60 rolls of a fair six-sided die, the number 3 is rolled 15 times. What is the |
| 10 | experimental probability of rolling a 3? |
| | o A) 1/4 |
| | ○ B) 1/6○ C) 1/3 |
| | o D) 1/5 |
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6. A coin is flipped 50 times and lands on heads 30 times. What is the experimental