



Practice Worksheet on ████████████████████

Generated for LarisaDatsiuk – Based on resource uploaded by user.

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Subject: ████████████████

Date: 2/15/2025

Long Answer Questions

1. ██████████ ██████████ "██████████████████" ██████████ ██████████.
2. ██████████ ██████████ ██████████ ████████████████████ ██████████ ██████████ ██████████.
3. ██████████ ██████████ "██████████████████ ████████████████████" ██████████ ██████████ ██████████.
4. ██████████ ████████████████████ ██████████ ████████████████████ ██████████ ██████████ ████████████████████ ██████████ ████████████████████.
5. ██████████ ██████████ ████████████████████ ████████████████████ ██████████ ██████████ ████████████████████?
6. ██████████ ████████████████████ ████████████████████ ██████████ ██████████ ██████████.
7. ██████████ ████████████████████ ██████████ ██████████ ██████████ ██████████.

8. $\int_0^1 (x^2 + 1) dx$ 的值为多少？

Multiple Choice Questions

1. $\int_0^1 x^2 dx$ 的值为多少？

- a) 0
- b) 1
- c) 2
- d) $\frac{1}{3}$

2. $\int_0^1 (x^2 + 2x) dx$ 的值为多少？

- a) 0
- b) 0.5
- c) 1
- d) 2

3. $\int_0^1 (x^2 + 1) dx$ 的值为多少？

- a) $\frac{1}{3}$
- b) $\frac{2}{3}$
- c) $\frac{4}{3}$
- d) $\frac{1}{3} + 1$

4. $\int_0^1 x^2 dx$ 的值为多少？

- a) $\frac{1}{3}$
- b) $\frac{2}{3}$
- c) $\frac{4}{3}$
- d) $\frac{1}{3} + 1$

5. $\int_0^1 (x^2 + 1) dx$ 的值为多少？

- a) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$, $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- b) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- c) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- d) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$

6. $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$:

- a) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- b) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- c) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- d) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$

7. $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$:

- a) $\frac{m}{n}$, $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$, $n - \frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- b) $\frac{m}{n}$, $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$, $n - \frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- c) $\frac{n}{m}$, $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$, $n - \frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- d) $\frac{n-m}{n}$, $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$, $n - \frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$

$\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$

8. $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$?

- a) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- b) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- c) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$
- d) $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{2}$

Answer Key

Long Answer Questions – Expected Responses

1. Explain the difference between "probability" and "odds".

Expected Answer: Probability is the ratio of the number of favorable outcomes to the total number of possible outcomes. Odds are the ratio of the number of favorable outcomes to the number of unfavorable outcomes. Probability is always between 0 and 1.

2. Explain the difference between a discrete random variable and a continuous random variable.

Expected Answer: A discrete random variable is one that can take on only a countable number of distinct values. A continuous random variable is one that can take on any value within a certain range. Example: $P(A) = m/n$, where m is the number of favorable outcomes and n is the total number of possible outcomes.

3. Explain the difference between a binomial distribution and a normal distribution.

Expected Answer: A binomial distribution is a discrete probability distribution that models the number of successes in a fixed number of independent trials. A normal distribution is a continuous probability distribution that is symmetric and bell-shaped. (Binomial, Normal).

4. Explain the difference between a discrete probability distribution and a continuous probability distribution.

Expected Answer: A discrete probability distribution is one where the random variable can take on only a countable number of distinct values. A continuous probability distribution is one where the random variable can take on any value within a certain range.

5. What is the difference between a discrete random variable and a continuous random variable?

Expected Answer: A discrete random variable is one that can take on only a countable number of distinct values. A continuous random variable is one that can take on any value within a certain range.

6. Explain the difference between a binomial distribution and a normal distribution.

Expected Answer: A binomial distribution is a discrete probability distribution that models the number of successes in a fixed number of independent trials. A normal distribution is a continuous probability distribution that is symmetric and bell-shaped.

7. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$.

Expected Answer: $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$, $\frac{5}{6}$ is the sum of $\frac{1}{2}$ and $\frac{1}{3}$. $\frac{5}{6}$ is the sum of $\frac{1}{2}$ and $\frac{1}{3}$.

8. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$.

Expected Answer: $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$, $\frac{5}{6}$ is the sum of $\frac{1}{2}$ and $\frac{1}{3}$. $\frac{5}{6}$ is the sum of $\frac{1}{2}$ and $\frac{1}{3}$.

Multiple Choice Questions - Correct Answers

1. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$?

Correct Answer: 1

2. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$?

Correct Answer: 0

3. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$?

Correct Answer: $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$ |

4. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$:

Correct Answer: $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$

5. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$:

Correct Answer: $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$, $\frac{5}{6}$ is the sum of $\frac{1}{2}$ and $\frac{1}{3}$.

6. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$:

Correct Answer: $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$

7. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$:

Correct Answer: $\frac{m}{n}$, m - numerator, n - denominator

XXXXXXXXXXXX

8. XX XXXX XXXXXXXXXXXX?

Correct Answer: XX XXXX XXXXXXXXXXXX XXXX