



Practice Worksheet on Fractions

Generated for Olena Zaboronok - Based on resource uploaded by user.

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Subject: Mathematics

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Long Answer Questions

1. Add the fractions $\frac{3}{5}$ and $\frac{2}{3}$. Show your work step by step.
2. Subtract $1\frac{1}{2}$ from $2\frac{1}{3}$. Show your work step by step.
3. Multiply the fractions $\frac{2}{3}$ and $\frac{1}{5}$. Show your work step by step.
4. Divide the fraction $\frac{2}{3}$ by $\frac{1}{2}$. Show your work step by step.
5. Add $\frac{1}{3}$ and $\frac{1}{4}$. Show your work step by step.
6. Multiply $1\frac{3}{4}$ by $\frac{2}{3}$. Show your work step by step.
7. Subtract $1\frac{1}{4}$ from $2\frac{1}{2}$. Show your work step by step.

8. Divide $1\frac{1}{2}$ by $\frac{2}{3}$. Show your work step by step.

Multiple Choice Questions

1. What is the result of $\frac{1}{3} + \frac{1}{6}$?

- a) $\frac{1}{6}$
- b) $\frac{1}{2}$
- c) $\frac{2}{3}$
- d) $\frac{5}{6}$

2. What is the result of $\frac{1}{2} - \frac{1}{4}$?

- a) $\frac{1}{12}$
- b) $\frac{1}{4}$
- c) $\frac{3}{4}$
- d) $\frac{1}{2}$

3. What is the result of $\frac{1}{2} * \frac{1}{3}$?

- a) $\frac{1}{6}$
- b) $\frac{2}{6}$
- c) $\frac{3}{6}$
- d) $\frac{4}{6}$

4. What is the result of $\frac{1}{2}$ divided by $\frac{1}{3}$?

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

5. What is the result of $\frac{1}{3} + \frac{1}{4}$?

- a) $5/12$
- b) $7/12$
- c) $1/2$
- d) $2/3$

6. What is the result of $1/3 * 1/5$?

- a) $2/5$
- b) $1/2$
- c) $1/5$
- d) $2/15$

7. What is the result of $1/4 - 1/6$?

- a) $1/12$
- b) $5/12$
- c) $1/6$
- d) $2/6$

8. What is the result of $1/2$ divided by $1/4$?

- a) $1/4$
- b) $1/2$
- c) $3/4$
- d) 2

Answer Key

Long Answer Questions - Expected Responses

1. Add the fractions $\frac{3}{5}$ and $\frac{2}{3}$. Show your work step by step.

Expected Answer: Find the least common denominator (LCD) of 5 and 3, which is 15. Convert both fractions to have the denominator of 15: $\frac{3}{5}$ becomes $\frac{9}{15}$ and $\frac{2}{3}$ becomes $\frac{10}{15}$. Add the numerators: $9 + 10 = 19$. The result is $\frac{19}{15}$ or $1\frac{4}{15}$.

2. Subtract $1\frac{1}{2}$ from $2\frac{1}{3}$. Show your work step by step.

Expected Answer: Convert mixed numbers to improper fractions. $1\frac{1}{2} = \frac{3}{2}$, $2\frac{1}{3} = \frac{7}{3}$. Find the LCD of 2 and 3, which is 6. Convert fractions: $\frac{3}{2} = \frac{9}{6}$, $\frac{7}{3} = \frac{14}{6}$. Subtract numerators: $14 - 9 = 5$. Result is $\frac{5}{6}$

3. Multiply the fractions $\frac{2}{3}$ and $\frac{1}{5}$. Show your work step by step.

Expected Answer: Multiply the numerators: $2 * 1 = 2$. Multiply the denominators: $3 * 5 = 15$. Result is $\frac{2}{15}$.

4. Divide the fraction $\frac{2}{3}$ by $\frac{1}{2}$. Show your work step by step.

Expected Answer: To divide fractions, flip the second fraction and multiply. $\frac{2}{3}$ divided by $\frac{1}{2} = \frac{2}{3} * \frac{2}{1} = \frac{4}{3} = 1\frac{1}{3}$

5. Add $\frac{1}{3}$ and $\frac{1}{4}$. Show your work step by step.

Expected Answer: Find the LCD, which is 12. Convert fractions: $\frac{1}{3} = \frac{4}{12}$, $\frac{1}{4} = \frac{3}{12}$. Add the fractions: $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$.

6. Multiply $1\frac{3}{4}$ by $\frac{2}{3}$. Show your work step by step.

Expected Answer: Convert $1\frac{3}{4}$ to an improper fraction: $\frac{7}{4}$. Multiply numerators and denominators: $\frac{7}{4} * \frac{2}{3} = \frac{14}{12}$. Simplify to $\frac{7}{6}$ or $1\frac{1}{6}$

7. Subtract $1\frac{1}{4}$ from $2\frac{1}{2}$. Show your work step by step.

Expected Answer: Convert mixed numbers to improper fractions: $2\frac{1}{2} = \frac{5}{2}$, $1\frac{1}{4} = \frac{5}{4}$. Find the LCD which is 4. Convert fractions $\frac{5}{2} = \frac{10}{4}$. Subtract $\frac{10}{4} - \frac{5}{4} = \frac{5}{4}$ or $1\frac{1}{4}$

8. Divide $1\frac{1}{2}$ by $\frac{2}{3}$. Show your work step by step.

Expected Answer: Convert to improper fractions: $\frac{3}{2}$ divided by $\frac{2}{3}$. Invert and multiply: $\frac{3}{2} * \frac{3}{2} = \frac{9}{4} = 2\frac{1}{4}$

Multiple Choice Questions - Correct Answers

1. What is the result of $\frac{1}{3} + \frac{1}{6}$?

Correct Answer: $\frac{1}{2}$

2. What is the result of $\frac{1}{2} - \frac{1}{4}$?

Correct Answer: $\frac{1}{4}$

3. What is the result of $\frac{1}{2} * \frac{1}{3}$?

Correct Answer: $\frac{1}{6}$

4. What is the result of $\frac{1}{2}$ divided by $\frac{1}{3}$?

Correct Answer: $\frac{3}{2}$

5. What is the result of $\frac{1}{3} + \frac{1}{4}$?

Correct Answer: $\frac{7}{12}$

6. What is the result of $\frac{1}{3} * \frac{1}{5}$?

Correct Answer: $\frac{1}{5}$

7. What is the result of $\frac{1}{4} - \frac{1}{6}$?

Correct Answer: $\frac{1}{6}$

8. What is the result of $\frac{1}{2}$ divided by $\frac{1}{4}$?

Correct Answer: 2