Grade 8 Mathematics Examination

School Name

July 21, 2024

1. (3 points) Simplify the following expression and find its absolute value: $\left|\frac{-7}{3}\right| + \left|\frac{5}{2}\right|$.

2. (3 points) Find the sum of $\frac{2}{5}$ and $\frac{3}{7}$. Simplify your answer.

3. (3 points) Simplify the following expression: $\frac{3}{4} - \left(-\frac{5}{6}\right)$.

4. (3 points) Evaluate the following: $\left(\frac{2}{3} \times \frac{-9}{4}\right) \div \frac{3}{8}$.

5. (3 points) If $a = \frac{7}{8}$ and $b = \frac{-5}{6}$, find the value of $a \times b$ and its absolute value.

6. (3 points) Subtract $\frac{4}{9}$ from $\frac{7}{12}$. Simplify your answer.

7. (3 points) Divide $\frac{5}{6}$ by $\frac{2}{3}$. Simplify your answer.

8. (3 points) If $x = \frac{3}{4}$ and $y = \frac{-2}{5}$, find the value of $x + y$ and its absolute value.

9. (3 points) Simplify the following expression: $\left|\frac{-8}{5}\right| - \left|\frac{3}{7}\right|$.

10. (3 points) Add the following rational numbers: $\frac{1}{3} + \frac{4}{9}$. Simplify your answer.