

Grade 4 Math Worksheet:

Fractions

Imagine you have a puzzle, and you can break it into pieces. Each piece is like a fraction of the whole puzzle. When you put them all together, they create the complete picture. Fractions work the same way, helping us understand how smaller parts fit into a bigger whole! ✨

Rules

Equivalent Fractions: Fractions that represent the same part of a whole are called equivalent fractions. You can create equivalent fractions by multiplying or dividing both the numerator and denominator by the same number.

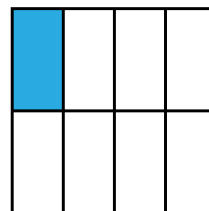
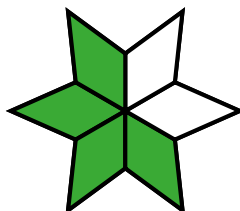
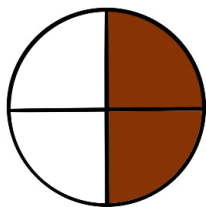
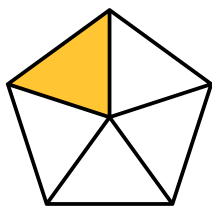
Addition and Subtraction: To add or subtract fractions, they must have a common denominator. You add or subtract the numerators while keeping the common denominator the same.

Multiplication: To multiply fractions, multiply the numerators together to get the new numerator and the denominators together to get the new denominator.

Division: To divide by a fraction, multiply by its reciprocal (flip the fraction). For example, to divide by $\frac{1}{4}$, you multiply by $\frac{4}{1}$ (or just 4).

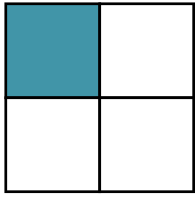
Questions

Write the fractions that the shaded sections represent for each shape

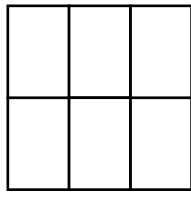


$$\frac{1}{5}$$

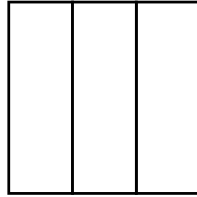
Shade the parts that represent the fraction



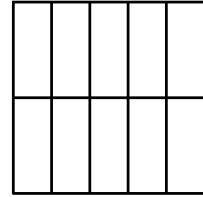
$$\frac{1}{4}$$



$$\frac{4}{6}$$



$$\frac{1}{3}$$



$$\frac{7}{10}$$

For each of the following fraction problems, carefully follow the specific operation (addition, subtraction, multiplication, or division) as indicated in the question. If the problem involves finding an equivalent fraction or converting a mixed number to an improper fraction, ensure you follow the given instructions. Simplify your answers whenever possible.

$$\frac{1}{4} + \frac{1}{3} =$$

$$\frac{1}{3} + \frac{2}{5} =$$

$$\frac{5}{8} - \frac{3}{8} =$$

$$\frac{3}{4} - \frac{1}{6} =$$

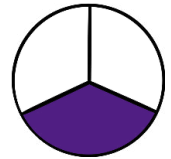
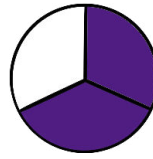
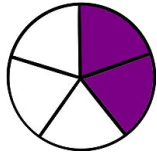
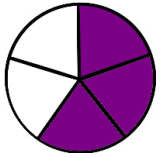
$$\frac{2}{3} \times \frac{1}{4} =$$

$$\frac{2}{3} \times \frac{4}{5} =$$

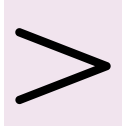
$$\frac{3}{5} \div \frac{1}{2} =$$

$$\frac{5}{8} \div \frac{1}{4} =$$

Use <, >, or = to compare the fractions.

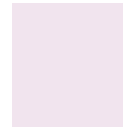


$$\frac{3}{5}$$

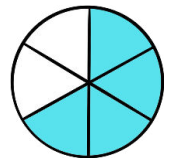
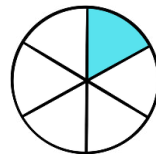
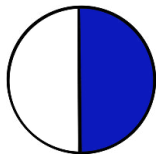
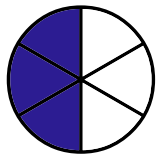


$$\frac{2}{5}$$

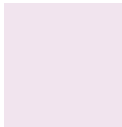
$$\frac{2}{3}$$



$$\frac{1}{3}$$

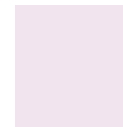


$$\frac{3}{6}$$



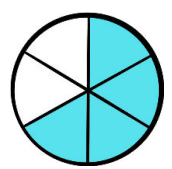
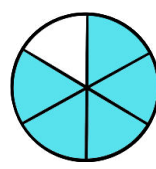
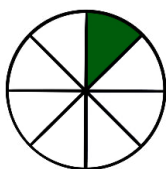
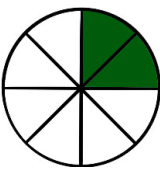
$$\frac{1}{2}$$

$$\frac{1}{6}$$

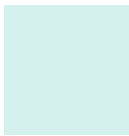


$$\frac{2}{6}$$

Write fraction of the colored part in each circle. Then, compare using >, <, or =.

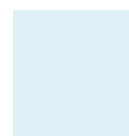


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