



Dividing fractions

GRADE 6 MATH

Name _____

Date _____

Work through the sheet in order — it ramps from computing to reasoning. Show your thinking; final answers go in the boxes. One skill: **dividing fractions**.

WORKED EXAMPLE

Keep • Change • Flip. Keep $\frac{5}{6}$, change $\div$ to $\times$, flip $\frac{2}{3}$ to $\frac{3}{2}$: $\frac{5}{6} \times \frac{3}{2} = \frac{15}{12} = \frac{5}{4}$.
Ask yourself what the division *means*: how many $\frac{2}{3}$ s fit into $\frac{5}{6}$?

1. Compute $\frac{1}{2} \div \frac{1}{8}$.

FLUENCY

Show your thinking

Answer

2. Compute $\frac{2}{3} \div \frac{1}{3}$.

FLUENCY

Show your thinking

Answer

3. Compute $\frac{4}{5} \div \frac{2}{5}$.

FLUENCY

Show your thinking

Answer

4. Compute $\frac{3}{4} \div \frac{1}{2}$. Give your answer as a fraction.

APPLICATION

Show your thinking

Answer

5. Compute $5 \div \frac{2}{3}$.

APPLICATION

Show your thinking

Answer

6. Compute $\frac{2}{3} \div 4$. (Careful — the divisor is a whole number.)

APPLICATION

Show your thinking

Answer

7. A board is $\frac{7}{8}$ ft long. How many $\frac{1}{4}$ -ft pieces can be cut? Explain what the remainder means.

REASONING

Show your thinking

Answer

8. A recipe needs $\frac{3}{4}$ cup of oats per batch. You have 6 cups. How many batches? Show your reasoning.

REASONING

Show your thinking

Answer

9. Jonah says $\frac{2}{5} \div \frac{3}{10}$ must be less than $\frac{2}{5}$ because dividing makes things smaller. Is he right? Compute it and explain.

REASONING

Show your thinking

Answer