



GRADE 4 / WATCH MR DJ SOLVE

EQUIVALENT FRACTIONS

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE**

Write an equivalent fraction for $\frac{1}{4}$ with denominator 8. Draw equal-length bars to explain.

- 1 Split every 4th into 2 equal parts.
- 2 $1 \times 2 = 2$
- 3 $4 \times 2 = 8$.
- 4 The same amount of the same whole is shaded.

Answer: **$\frac{2}{8}$**



REMEMBER Partition the same whole more finely; scale numerator and denominator by the same factor.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.

GRADE 4 / WORKED METHODS

EQUIVALENT FRACTIONS

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Rename the same shaded amount

$\frac{1}{4} = \frac{2}{8}$

1. Start with one of four equal parts shaded.
2. Split each fourth into two equal pieces.
3. Two of eight pieces are shaded: $\frac{1}{4} = \frac{2}{8}$.

$$\frac{1}{4} = \frac{2}{8}$$



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



$$\frac{2}{8}$$



GRADE 4 / WORKED METHODS

EQUIVALENT FRACTIONS

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Reverse the partition

$$6/8 = 3/4$$

1. Pair adjacent eighths to make fourths.
2. Six shaded eighths form three shaded pairs.
3. Divide both counts by 2: $6/8 = 3/4$.



GRADE 4 / PRACTICE

EQUIVALENT FRACTIONS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Mild

1. Write an equivalent fraction for $\frac{2}{6}$ with denominator 18. Draw equal-length bars to explain.

Grid area for drawing equal-length bars to explain the equivalent fraction.

My answer / conclusion: _____



GRADE 4 / PRACTICE

EQUIVALENT FRACTIONS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Mild

2. Write an equivalent fraction for $\frac{3}{4}$ with denominator 8. Draw equal-length bars to explain.

My answer / conclusion: _____

Medium

3. Find the missing numerator: $\frac{1}{4} = \frac{\square}{12}$. Explain why both counts change.

My answer / conclusion: _____



Name _____ Date _____

Date _____

EQUIVALENT FRACTIONS

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

Medium 4. Write $\frac{4}{8}$ in simplest form using equal groups.

My answer / conclusion: _____

🔒 Medium 5. Show $1 = 4/4 = 8/8$ using two bars with the same length. Explain why the number of pieces changes.

My answer / conclusion: _____



GRADE 4 / PRACTICE

EQUIVALENT FRACTIONS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

6. A child says $\frac{2}{3} = \frac{3}{4}$ because both numerator and denominator increased by 1. Refute with a same-whole model.

Grid area for drawing a same-whole model.

My answer / conclusion: _____

GRADE 4 / PRACTICE

EQUIVALENT FRACTIONS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Spicy

7. Can equivalent fractions have different numerators AND denominators? Explain what stays unchanged.

My answer / conclusion: _____



GRADE 4 / PRACTICE

EQUIVALENT FRACTIONS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Extra Spicy

8. Write three fractions equivalent to $\frac{3}{5}$. Explain how to generate more and why your rule works.

Grid area for working out the answer.

My answer / conclusion: _____