



GRADE 3 / WATCH MR DJ SOLVE

COMPARING FRACTIONS WITH MODELS

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****Compare $\frac{1}{4}$ and $\frac{3}{4}$ of the same whole. Use $<$, $>$ or $=$ and a model.**

- 1** Keep the same whole.
- 2** Count equal-sized pieces, or compare the size of one piece when the numerators agree.
- 3** The first selected amount is smaller.

Answer: $\frac{1}{4} < \frac{3}{4}$ **REMEMBER** compare fractions using a common whole and the meaning of equal parts.

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 3 / WORKED METHODS

COMPARING FRACTIONS WITH MODELS

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.

The same denominator

$$\frac{1}{4} < \frac{3}{4}$$

1. The whole and part size are the same.
2. One selected part is fewer than three.
3. So one fourth is less than three fourths.



$\frac{1}{4}$ of one whole



$\frac{3}{4}$ of one whole



GRADE 3 / WORKED METHODS

COMPARING FRACTIONS WITH MODELS

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.

The same numerator

$$\frac{1}{3} > \frac{1}{6}$$

1. Use equal-size wholes.
2. A third is a larger piece than a sixth.
3. One larger piece gives the larger fraction.

GRADE 3 / MATHEMATICAL WORK TOOL

COMPARING FRACTIONS WITH MODELS

Use labels and a clear scale.



Define one whole, then partition it into equal parts. On number lines, label zero and one before making equal intervals. Extend the line for fractions beyond one.



GRADE 3 / PRACTICE

COMPARING FRACTIONS WITH MODELS

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. Compare $\frac{3}{4}$ and $\frac{1}{4}$ on aligned number lines.

My answer / conclusion: _____



Date _____

COMPARING FRACTIONS WITH MODELS

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

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.

2. Compare $\frac{1}{4}$ and $\frac{1}{4}$ for same-size wholes.

My answer / conclusion: _____

**GRADE 3 / PRACTICE****COMPARING FRACTIONS WITH MODELS**

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.

Medium**3. Draw $\frac{1}{4}$ in two same-size shapes. Compare the fractions in the shapes.**

My answer / conclusion: _____



Date _____

COMPARING FRACTIONS WITH MODELS

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

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.

Medium 4. Compare $\frac{3}{4}$ and $\frac{1}{4}$. Explain using equal-size pieces.

My answer / conclusion: _____



GRADE 3 / PRACTICE

COMPARING FRACTIONS WITH MODELS

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.

◀ Medium

5. Compare $\frac{2}{3}$ and $\frac{2}{4}$ of the same whole. Explain with two unit pieces.

My answer / conclusion: _____



Date _____

COMPARING FRACTIONS WITH MODELS

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

🔥 Spicy 6. Digit says $\frac{1}{4}$ is greater than $\frac{1}{2}$ because its denominator is bigger. Repair this.

My answer / conclusion: _____



GRADE 3 / PRACTICE

COMPARING FRACTIONS WITH MODELS

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 $\frac{1}{4}$ of one paper be compared with $\frac{3}{4}$ of another paper if their sizes are unknown? Explain.

Grid area for student work.

My answer / conclusion: _____



GRADE 3 / PRACTICE

COMPARING FRACTIONS WITH MODELS

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. Make two different fraction comparisons using denominator 4. Explain a rule that checks both.

Grid area for working out the answer.

My answer / conclusion: _____