Compare and rename fractions · Lesson A

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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

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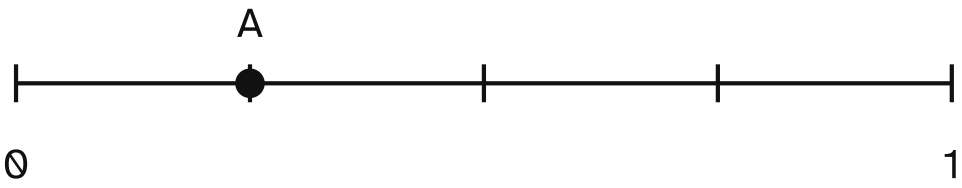
1. What fraction names point A? The distance from 0 to 1 is one whole.

1/4

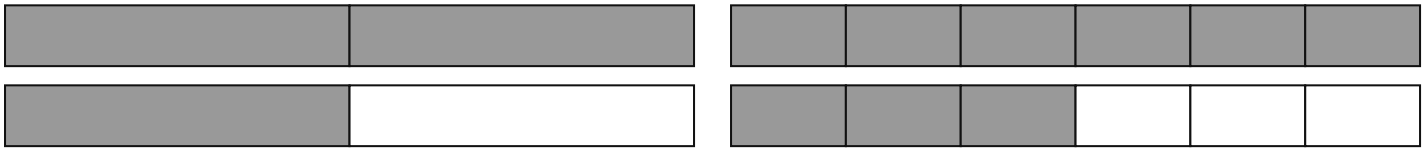
A is 1 spaces of 1/4 from zero: 1/4.



2. Split each original part into 3 equal pieces. Keep the shaded amount the same.

Split each original part into 3 equal pieces: 9/6.

3/2 = (3 × 3)/(2 × 3) = 9/6. The whole and the shaded amount stay the same.



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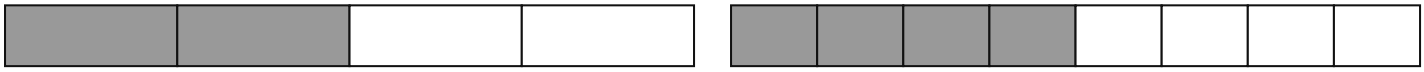
3. Split each original part into 2 equal pieces. Keep the shaded amount the same.

Split each original part into 2 equal pieces: 4/8.

2/4 = (2 × 2)/(4 × 2) = 4/8. The whole and the shaded amount stay the same.



4. Compare 5/6 __ 2/6 of the same-sized whole.

>

5/6 > 2/6. The denominators match, so comparing numerators compares the amounts.

5/6

2/6

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5. Compare 2/4 _ 4/4 of the same-sized whole.

<

2/4 < 4/4. The denominators match, so comparing numerators compares the amounts.

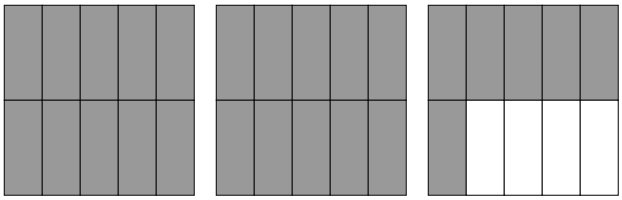
2/4

4/4

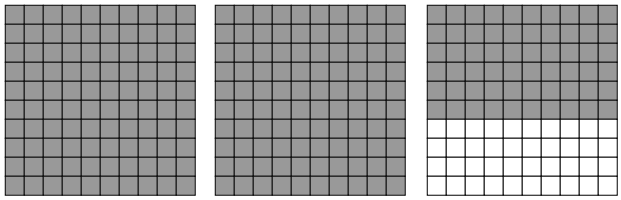
6. Fill in the missing numerator: 26/10 = ?/100.

260

26/10 = (26 × 10)/(10 × 10) = 260/100. The whole and the shaded amount stay the same.



Each square is one whole, with 10 equal parts.



Each square is one whole, with 10 rows of 10 hundredths.

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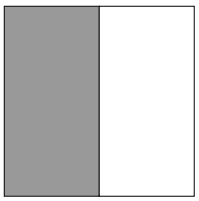
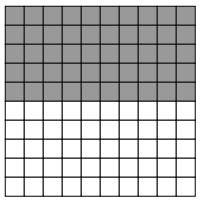
7. Fill in the missing numerator: 1/2 = ?/100.

50

1/2 = (1 × 50)/(2 × 50) = 50/100. The whole and the shaded amount stay the same.



Each square is one whole, with 2 equal parts.



Each square is one whole, with 10 rows of 10 hundredths.

8. Write a fraction equal to 6/3 with denominator 6. Which reason would help you solve this correctly?

Each old part becomes 2 smaller equal parts. Change both numerator and denominator by the same factor.