Mixed numbers with unlike denominators

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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. Find 1 2/3 – 2/6.

4/3

1 2/3 – 2/6 = 10/6 – 2/6 = 4/3 = 1 1/3.

1 2/3

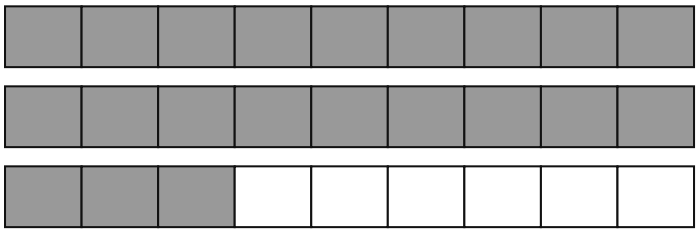
2/6

2. Find 2 3/9 + 1 2/5.

56/15

2 3/9 + 1 2/5 = 105/45 + 63/45 = 56/15 = 3 11/15.

2 3/9



1 2/5

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3. Find 1 6/7 + 2/3.

53/21

1 6/7 + 2/3 = 39/21 + 14/21 = 53/21 = 2 11/21.

4. Find 2 8/12 − 2/3.

2

2 8/12 − 2/3 = 32/12 − 8/12 = 2 = 2.

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5. Find 1 3/4 – 1 2/3.

1/12

1 3/4 – 1 2/3 = 21/12 – 20/12 = 1/12.

6. Find 2 1/4 – 3/9. Which reason would help you solve this correctly?

Use denominator 36. Rename both fractions before subtracting.

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7. Two ribbon lengths measure 2 8/11 meters and 1/2 meters. What is their total length in meters?

71/22

2 8/11 + 1/2 = 60/22 + 11/22 = 71/22 = 3 5/22. The answer is in meters.

8. Find 1/2 − 3/12.

1/4

1/2 − 3/12 = 6/12 − 3/12 = 1/4.