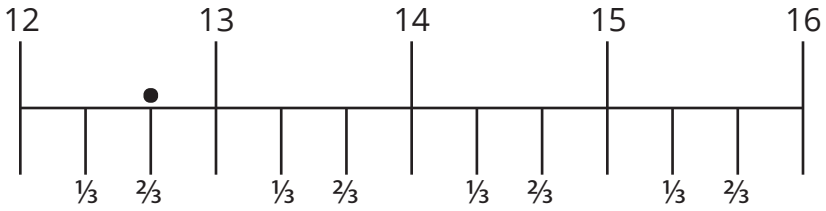
5½ More Adding Mixed Numbers and Improper Fractions on a Number Line

Name:_____ Date:_____

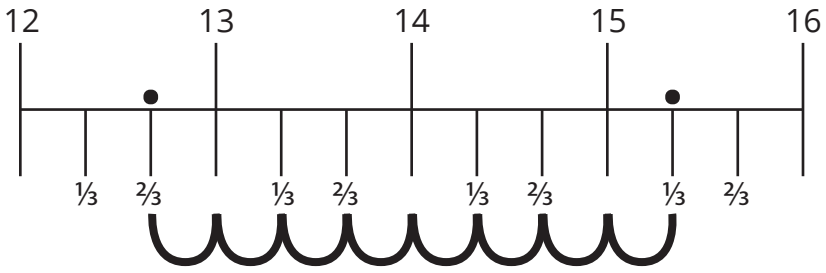
When adding mixed numbers and improper fractions with the same denominator (or like fractions), where do you begin?

Consider the sum of 8/3 and 12 2/3.

Step 1) Estimate a good length for a number line and draw it, beginning with your mixed number, in denominator sized partitions.
(A length of 4 whole units seems good enough; you can always add more if you need to!)



Step 2) Add, by counting up 8/3 from the mixed number point and identify where you end up... at 15 1/3



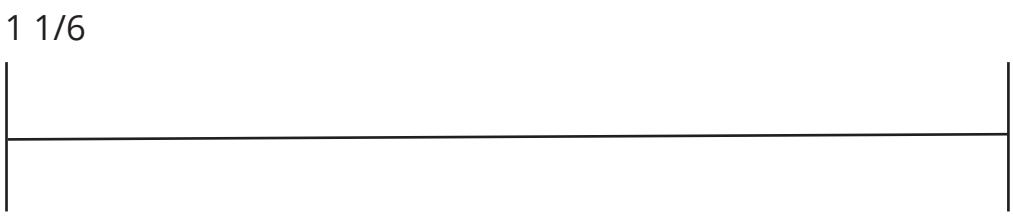
So, we have 8/3+ 12 2/3 = 15 1/3

Answer Sheet

Directions: Use the two-step procedure for the following exercises:

1. Add 11 1/6 and 8/6

12 3/6



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Answer Sheet

2. Add 19 2/5 and 9/5

21 1/5

19 2/5

3. Add 22 2/3 and 8/3

25 1/3

22 2/3

4. Add 13 3/7 and 1 5/7

15 1/7

13 3/7

Think About It:
Is it best to estimate or use an exact measurement when adding like fractions and mixed numbers? Explain.

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