LESSON MAKER PRO

Fraction Finish Line

Estimate, add or subtract, and simplify fractions.

GRADE 5 · 5.CE.2.b

5.CE.2.b "Estimate and determine the sum or difference of two fractions (proper or improper) and/or mixed numbers, having like and unlike denominators limited to 2, 3, 4, 5, 6, 8, 10, and 12 (e.g., 58 + 14, 45 − 23, 334 + 2512)..."

NAME _____ DATE _____

PLAN, THEN SOLVE

First, estimate by using benchmark fractions such as 0, 1/2, and 1. Then rename the fractions with a common denominator, add or subtract the numerators, and simplify the result.

WORKED EXAMPLE

Estimate and find 3 1/8 + 5/6.

1. Estimate: 3 1/8 is about 3, and 5/6 is about 1, so the sum is about 4.
2. Use 24: 3 1/8 = 3 3/24 and 5/6 = 20/24.
3. Add: 3 3/24 + 20/24 = 3 23/24.

Answer: Estimate: about 4. Exact sum: 3 23/24.

PRACTICE 6 problems

1 Estimate, then find 2/3 + 3/4.

ANSWER _____

2 Estimate, then find 7/10 - 1/4.

ANSWER _____

3 Estimate, then find 1 2/5 + 3/10.

ANSWER _____

4 Estimate, then find 2 3/4 - 5/6.

ANSWER _____

5 Estimate, then find 9/4 + 2/3.

ANSWER _____

6 Estimate, then find 4 1/5 - 7/10.

ANSWER _____

APPLY IT Show your work

1 Nia rode her bike 2 3/4 miles on Saturday and 1 5/6 miles on Sunday. Estimate, then find the total distance she rode.

WORK SPACE

ANSWER _____

2 A podcast club has 4 1/2 hours for recording. The club uses 1 2/3 hours to record interviews. Estimate, then find how much recording time is left.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Estimate, then find 5 1/12 - 2 3/8. Show a common denominator and simplify your answer.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Finish Line

GRADE 5 · 5.CE.2.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Estimate, then find 2/3 + 3/4.	**Estimate: about 1 1/2. Exact sum: 1 5/12.**
2	Estimate, then find 7/10 - 1/4.	**Estimate: about 1/2. Exact difference: 9/20.**
3	Estimate, then find 1 2/5 + 3/10.	**Estimate: about 1 1/2. Exact sum: 1 7/10.**
4	Estimate, then find 2 3/4 - 5/6.	**Estimate: about 2. Exact difference: 1 11/12.**
5	Estimate, then find 9/4 + 2/3.	**Estimate: about 3. Exact sum: 2 11/12.**
6	Estimate, then find 4 1/5 - 7/10.	**Estimate: about 3 1/2. Exact difference: 3 1/2.**

PART 2 · APPLY IT

1. **Estimate: about 4 1/2 miles. Exact distance: 4 7/12 miles.** Add 2 3/4 and 1 5/6 using twelfths. The sum is 55/12, or 4 7/12.
2. **Estimate: about 3 hours. Exact time left: 2 5/6 hours.** Subtract 1 2/3 from 4 1/2 using sixths. The difference is 17/6, or 2 5/6.

CHALLENGE

Estimate: about 3. Exact difference: 2 17/24.

Accept equivalent simplified forms and mixed-number or improper-fraction answers when correct. Estimates may vary if they are reasonable and use benchmark fractions.