LESSON MAKER PRO

Fraction Mix-Up

Add and subtract fractions that name the same whole.

GRADE 5 · TEKS 5.3.H

5.3.H "represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models and properties of operations;"

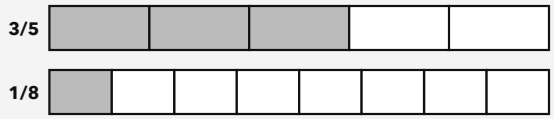
NAME _____ DATE _____

MAKE EQUAL PARTS

Fractions must name the same-size parts before you add or subtract them. Rename each fraction with a common denominator, then add or subtract the numerators. Simplify when you can.

WORKED EXAMPLE

Find 3/5 + 1/8.

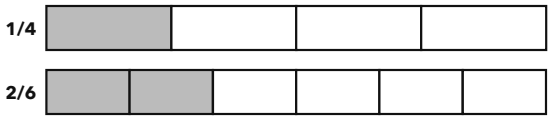


1. Use 40 as a common denominator.
2. Rename 3/5 as 24/40 and 1/8 as 5/40.
3. Add: 24/40 + 5/40 = 29/40.

Answer: 29/40

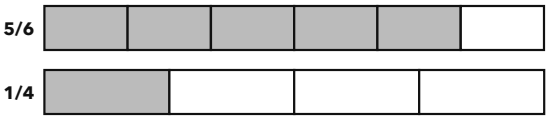
PRACTICE 6 problems

1 The fraction bars show 1/4 and 2/6 of the same whole. Use the bars to help you find 1/4 + 2/6.



ANSWER _____

2 The fraction bars show 5/6 and 1/4 of the same whole. Use the bars to help you find 5/6 - 1/4.



ANSWER _____

3 Find 3/8 + 1/6.

ANSWER _____

4 Find 7/10 - 1/4.

ANSWER _____

5 Find 5/12 + 3/8.

ANSWER _____

6 Find 11/15 - 2/9.

ANSWER _____

APPLY IT Show your work

1 At robotics club, Jada spends 3/8 hour coding and 1/6 hour testing her robot. What fraction of an hour does she spend coding and testing altogether?

WORK SPACE

ANSWER _____

2 A runner completes 7/10 mile of a 1-mile school fun run, then runs another 1/4 mile. What fraction of the mile is left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A game designer finishes 1/6 of a level on Monday, 1/3 on Tuesday, and 3/8 on Wednesday. What fraction of the level is finished? Show which two fractions you grouped first and explain why that grouping helps.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Mix-Up

GRADE 5 · TEKS 5.3.H

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	The fraction bars show 1/4 and 2/6 of the same whole. Use the bars to help you find 1/4 + 2/6.	**7/12**
2	The fraction bars show 5/6 and 1/4 of the same whole. Use the bars to help you find 5/6 - 1/4.	**7/12**
3	Find 3/8 + 1/6.	**13/24**
4	Find 7/10 - 1/4.	**9/20**
5	Find 5/12 + 3/8.	**19/24**
6	Find 11/15 - 2/9.	**23/45**

PART 2 · APPLY IT

1. **13/24 hour** Use 24 as a common denominator: 3/8 + 1/6 = 9/24 + 4/24 = 13/24.
2. **1/20 mile** First find the part completed: 7/10 + 1/4 = 14/20 + 5/20 = 19/20. Then subtract from the whole: 20/20 - 19/20 = 1/20.

CHALLENGE

7/8; group 1/6 + 1/3 = 1/2, then 1/2 + 3/8 = 4/8 + 3/8 = 7/8. Grouping 1/6 and 1/3 makes the easy fraction 1/2.

Accept equivalent fractions that have the correct value, although simplified answers are preferred. For the challenge, accept any correct grouping and computation that results in 7/8.