LESSON MAKER PRO

Flip and Divide

Divide fractions by multiplying by a reciprocal.

GRADE 6 · 6.NS.A

CCSS.Math.Content.6.NS.A "Apply and extend previous understandings of multiplication and division to divide fractions by fractions."

NAME _____ DATE _____

DIVIDE BY FLIPPING

To divide by a fraction, multiply by its reciprocal. Keep the first fraction, change ÷ to x, and flip the second fraction before multiplying.

WORKED EXAMPLE

7/12 ÷ 5/8

1. Keep 7/12. Change ÷ to x, and flip 5/8 to 8/5.
2. Multiply: 7/12 x 8/5 = 56/60.
3. Simplify 56/60 to 14/15.

Answer: 14/15

PRACTICE 6 problems

1 Find: 2/3 ÷ 4/9

ANSWER _____

2 Find: 3/4 ÷ 1/6

ANSWER _____

3 Find: 11/13 ÷ 2/3

ANSWER _____

4 Find: 9/10 ÷ 3/11

ANSWER _____

5 Find: 1 1/2 ÷ 2/9

ANSWER _____

6 Find: 4 1/3 ÷ 13/6

ANSWER _____

APPLY IT Show your work

1 The esports club plans 2 1/4 hours of practice. Each match lasts 3/4 hour. How many matches fit exactly into the practice time?

WORK SPACE

ANSWER _____

2 For a game-night prize table, the club has 2/3 of a box of trading cards. Each prize bundle uses 1/9 of a box. How many prize bundles can the club make?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Find: 3 1/3 ÷ 2 1/4

WORK SPACE AND ANSWER

ANSWER KEY

Flip and Divide

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find: 2/3 ÷ 4/9	**3/2**
2	Find: 3/4 ÷ 1/6	**9/2**
3	Find: 11/13 ÷ 2/3	**33/26**
4	Find: 9/10 ÷ 3/11	**33/10**
5	Find: 1 1/2 ÷ 2/9	**27/4**
6	Find: 4 1/3 ÷ 13/6	**2**

PART 2 · APPLY IT

1. **3 matches** Divide 2 1/4 by 3/4. Rewrite 2 1/4 as 9/4, then 9/4 ÷ 3/4 = 3.
2. **6 prize bundles** Divide 2/3 by 1/9. Multiply 2/3 x 9/1 to get 6.

CHALLENGE

40/27, or 1 13/27

Accept equivalent fractions and either improper fractions or mixed numbers when appropriate. Students should multiply by the reciprocal of the divisor, not the dividend.