

Write the improper fraction as a mixed number.

1.
$$\frac{12}{5}$$

2.
$$\frac{21}{4}$$

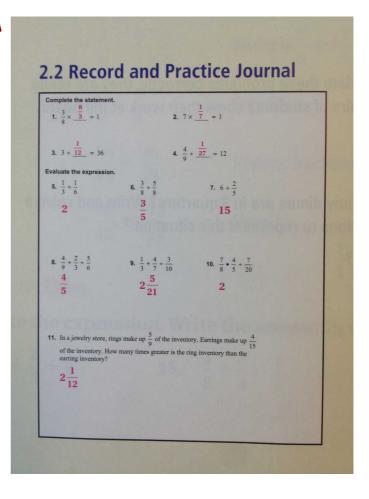
3.
$$\frac{16}{9}$$

4.
$$\frac{27}{6}$$

5.
$$\frac{80}{3}$$

6.
$$\frac{55}{9}$$

HomeworkReview
Page 38 in the Big
Ideas Record and
Ideas Record and
Pracce Journal
Pracce Journal



EssentialQuestion

How can you divide by a mixed number?

LessonTarget

To be able to:

 use a visual model and a formal rule to divide with mixed numbers.

Self-EvaluationRubric

Score	Description
4	I can teach other students how to use a visual model and a formal rule to divide by with mixed numbers.
3	I can use a visual model and a formal rule to divide by with mixed numbers.
2	I recognize a visual model and a formal rule to divide by with mixed numbers.
1	I do not know how to use a visual model and a formal rule to divide by with mixed numbers.

Activity1

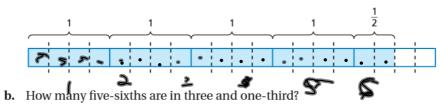
With a partner, complete Acvity 1 on page 39 & 40 in your Big Ideas Record and Pracce Journal.

Activity2

With a partner, complete Acvity 2 on page 40 & 41 in your Big Ideas Record and Pracce Journal.

42-3

a. How many three-fourths are in four and one-half?

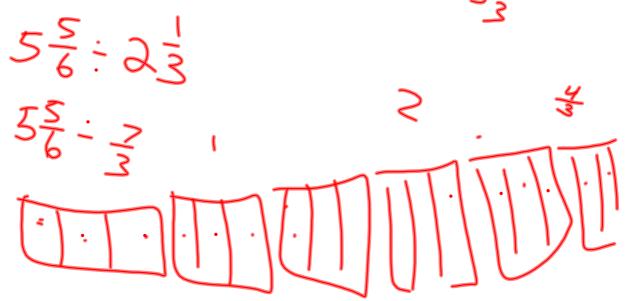


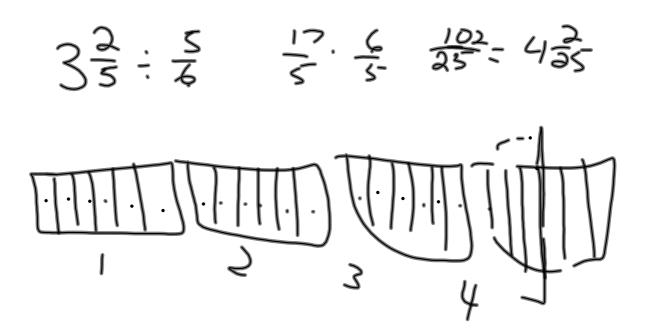
- 33:5
- 1 1 1 1 3
- c. How many three-eighths are in three and three-fourths?



- d. How many one and one-halves are in six?
- e. How many one and one-fifths are in five?
- f. How many one and one-fourths are in four and one-half?
- g. How many two and one-thirds are in five and five-sixths?









Dividing Mixed Numbers

Write each mixed number as an improper fraction. Then divide as you would with proper fractions.

Dividing Mixed Numbers

Find
$$3\frac{5}{6} \div 1\frac{2}{3} = \frac{3}{40}$$

Estimate
$$4 \div 2 = 2$$

$$3\frac{5}{6} \div 1\frac{2}{3} = \frac{23}{6} \div \frac{5}{3}$$

$$= \frac{23}{6} \times \frac{3}{5}$$

$$= \frac{23 \times \cancel{3}}{\cancel{6} \times 5}$$

$$= \frac{23}{\cancel{6}}, \text{ or } 2\frac{3}{\cancel{10}}$$

Write each mixed number as an improper fraction.

Multiply by the reciprocal of $\frac{5}{3}$, which is $\frac{3}{5}$.

Multiply fractions. Divide out common factors.

Simplify.

So, the quotient is $2\frac{3}{10}$. Reasonable? $2\frac{3}{10} \approx 2$

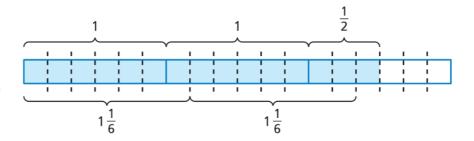
TryIt!

Try numbers 13 - 24 on page 74 of your Big Ideas Text Book.

OnYourOwn

Reasoning At a track meet, the longest shot-put throw by a boy is 25 feet 8 inches. The longest shot-put throw by a girl is 19 feet 3 inches. How many times greater is the longest shot-put throw by the boy than by the girl?

LOGIC Alexei uses the model shown to state that $2\frac{1}{2} \div 1\frac{1}{6} = 2\frac{1}{6}$. Is Alexei correct? Justify your answer using the model.



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Homework

Big Ideas Record and Pracce Journal Page 42