# Divide Mixed Numbers

Change mixed numbers to improper fractions, then divide.

**Name** _____ **Date** _____

## Tonight's spark

A neighborhood walking path is 3 1/2 miles long. A volunteer marks it in sections that are each 1/4 mile. How many sections does the path have?

**Guess first: more than 10 sections, or fewer?**




**Our class model: convert first, then Keep, Change, Flip**

## Try it

Work it out on paper. Write one answer on each line.

1. **Write 2 1/3 as an improper fraction.**

   **A.** 21/3 **B.** 7/3 **C.** 6/3 **D.** 5/3

   **My answer** _____

2. **Write 11/4 as a mixed number.**

   **A.** 2 3/4 **B.** 3 1/4 **C.** 2 1/4 **D.** 11 1/4

   **My answer** _____

3. **What is the reciprocal of 5/2?**

   **A.** 5/2 **B.** 2 1/2 **C.** 2/5

   **My answer** _____

**4** **Find 1 1/2 ÷ 1/4.**

**A.** 3/8 **B.** 2 **C.** 5 1/2 **D.** 6

**My answer** _____

**5** **Find 3 1/2 ÷ 1 3/4.**

**A.** 6 1/8 **B.** 2 **C.** 5 1/4 **D.** 1/2

**My answer** _____

**6** **A 4 1/2-foot board is cut into pieces that are each 3/4 foot long. How many pieces?**

**A.** 3 3/8 **B.** 5 1/4 **C.** 6 **D.** 1 1/2

**My answer** _____

### Talk about it

How many halves are in the 3 wholes of 3 1/2?

### Home mission

Find a ruler. Measure a pencil to the nearest 1/2 inch. Ask: how many 1/2-inch pieces would it make? Guess first, then count the halves on the ruler.

### If we get stuck, ask

- Before we divide, did we change the mixed number into a fraction?
- To convert, multiply the whole by the bottom, then add the top. What do we get?
- Now which fraction do we flip to divide?

**Do it on a screen**

Scan or type the link. Same lesson, with hints.

**eduwonderlab.com/lessons/6-10/homework.html**

**How did it feel? (optional)**

Tricky Getting there Got it