# Subtracting Mixed Numbers Worksheet

Practice converting, adding and subtracting mixed numbers and improper fractions.

NAME _____ DATE _____ SCORE _____

MY GOALS

- I can practice subtracting mixed numbers.
- I can use improper fraction.
- I can use mixed number.
- I can use the word convert.

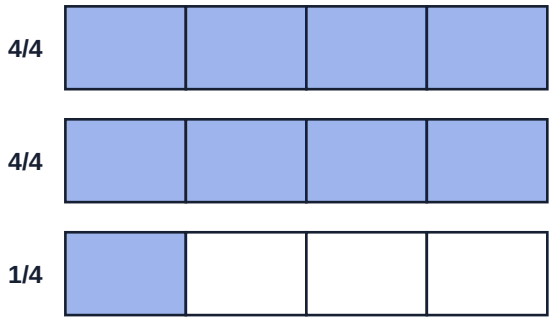
LEARN IT

## Changing improper fractions and mixed numbers

An improper fraction has a numerator that is as big as or bigger than the denominator. A mixed number is a whole number plus a fraction. To convert, divide the numerator by the denominator to get the whole number and remainder. To go the other way, multiply the whole number by the denominator and add the numerator.

WATCH ME

**Convert 9/4 to a mixed number.**




1. Divide 9 by 4 to get 2 with remainder 1.
2. The quotient 2 is the whole number and the remainder 1 is the numerator.
3. Write the mixed number 2 1/4.

ANSWER **2 1/4**

KEY WORDS

**Improper fraction** A fraction with a numerator ≥ denominator

**Mixed number** A whole number plus a fraction

**Convert** Change a number from one form to another

REMEMBER

- Divide numerator by denominator to make a mixed number.
- Quotient = whole number; remainder = new numerator.
- To make an improper fraction, multiply whole × denominator and add numerator.

WATCH OUT

When converting to a mixed number, divide first and keep the same denominator for the remainder.

## PART A Warm up

**1** FILL IN THE BLANK

**Convert each improper fraction to a mixed number. Write the mixed number in the blank.**

**a)** 9/2 = _____

**b)** 14/5 = _____

**c)** 8/3 = _____

**d)** 13/4 = _____

**e)** 22/6 = _____

**f)** 27/8 = _____

**g)** 16/4 = _____

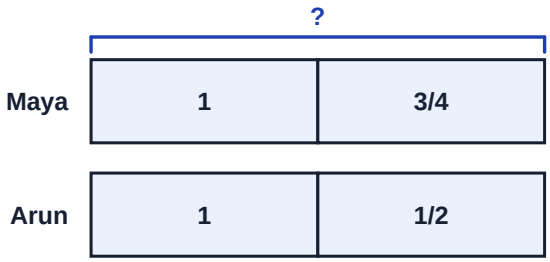
## PART B Practice

**2** WRITE

**Change 5 2/3 to an improper fraction. Show the multiplication and addition you used.**

**3** SHOW YOUR WORK

**Maya ate 1 3/4 pies and Arun ate 1 1/2 pies. Find how many pies they ate altogether. You may convert to improper fractions to add, and write the final answer as a mixed number.**




| Person | Fraction | Mixed number |
|---|---|---|
| | | |
| | | |
| | | |

**4** WRITE

**Explain in two or three sentences how to convert 23/6 into a mixed number. Show the division you use.**

## PART C Apply it

**5** WRITE

**Subtract to find the answer: 5 1/3 – 2 2/5. Show the steps and give the answer as a mixed number.**

## PART D Challenge

**6** WRITE

**A recipe needs 4 1/3 cups of flour. You have 2 5/6 cups. How much more flour do you need? Show the subtraction and give the answer as a mixed number.**

CHECK YOUR WORK

- ☐ I converted between improper fractions and mixed numbers correctly.
- ☐ I showed the division or multiplication steps I used.
- ☐ I checked that my final mixed numbers are in simplest form.

HOW DID IT GO? ◯ I can do this on my own ◯ I need a bit more practice ◯ I would like some help

# Subtracting Mixed Numbers Worksheet

TEACHING NOTES

- **Question 1:** Expect answers in simplest form (e.g., change 3 4/6 to 3 2/3).
- **Question 2:** A strong answer shows (whole × denominator) + numerator and then writes the fraction.
- **Question 3:** Encourage converting each mixed number to an improper fraction with a common denominator before adding.
- **Question 4:** A good explanation shows the division with quotient and remainder and writes the mixed number.
- **Question 5:** Look for a common denominator and consider converting both to improper fractions before subtracting.
- **Question 6:** Check answers by converting both mixed numbers to sixths to subtract more easily.

| QUESTION | ANSWER | WHY |
|---|---|---|
| **Question 1** | **a) 4 1/2 b) 2 4/5 c) 2 2/3 d) 3 1/4 e) 3 2/3 f) 3 3/8 g) 4** | Divide each numerator by its denominator. The quotient is the whole number and the remainder is the new numerator over the original denominator. Simplify remainders when possible (22/6 → 3 4/6 → 3 2/3). |
| **Question 2** | **17/3** | Multiply the whole number by the denominator and add the numerator: (5 × 3) + 2 = 15 + 2 = 17, so 17/3. Watch for: include both multiplication and addition steps. |
| **Question 3** | **3 1/4** | Convert to fourths: 1 3/4 = 7/4 and 1 1/2 = 3/2 = 6/4. Add: 7/4 + 6/4 = 13/4 = 3 1/4. Watch for using a common denominator before adding. |
| **Question 4** | **3 5/6** | Divide 23 by 6: 23 ÷ 6 = 3 remainder 5. The mixed number is 3 5/6. A clear answer shows the division sentence and places the remainder over the original denominator. |
| **Question 5** | **2 14/15** | Convert to improper fractions: 5 1/3 = 16/3 and 2 2/5 = 12/5. Change to fifteenths: 80/15 – 36/15 = 44/15 = 2 14/15. Watch for common denominators and simplify remainder if possible. |
| **Question 6** | **1 1/2** | Convert to sixths: 4 1/3 = 13/3 = 26/6; 2 5/6 = 17/6. Subtract: 26/6 – 17/6 = 9/6 = 3/2 = 1 1/2. Check by converting back to mixed numbers. |