

Improper fractions & mixed numbers



Convert between improper fractions and mixed numbers in both directions.

Name _____

Date _____

Divide, or multiply and add

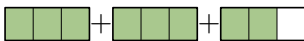
To convert an improper fraction to a mixed number, divide the numerator by the denominator: the quotient is the whole number and the remainder becomes the new numerator (same denominator). To convert a mixed number to an improper fraction, multiply the whole number by the denominator, add the numerator, and keep the same denominator.

Worked example Convert $\frac{11}{4}$ to a mixed number using the bar.

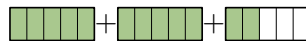


$$11 \div 4 = 2 \text{ remainder } 3.$$
$$\frac{11}{4} = 2\frac{3}{4}.$$

1. What mixed number does this bar show?



2. What mixed number does this bar show?



3. Convert $\frac{9}{2}$ to a mixed number.

4. Convert $\frac{13}{6}$ to a mixed number.

5. Convert $2\frac{1}{3}$ to an improper fraction.

6. Convert $3\frac{1}{4}$ to an improper fraction.

7. Convert $\frac{17}{5}$ to a mixed number.

8. Is $\frac{14}{5} = 2\frac{4}{5}$ correct?

9. Fill in the blank: $\frac{17}{4} = \square\frac{\square}{4}$.

Improper fractions & mixed numbers (continued)

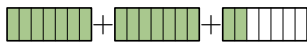
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10. What mixed number does this bar show?



11. Convert $6\frac{1}{6}$ to an improper fraction.

12. Convert $\frac{23}{6}$ to a mixed number.

13. Which is greater: $\frac{11}{3}$ or $3\frac{1}{2}$?

14. Explain in one sentence what the denominator tells you in $4\frac{3}{7}$.

15. Convert $7\frac{2}{9}$ to an improper fraction.

16. A student says $4\frac{2}{3} = \frac{14}{3}$. Are they correct? Explain.

17. Write $\frac{35}{4}$ as a mixed number, then place it between two whole numbers.

18. A ribbon is $\frac{17}{3}$ m long. Write this as a mixed number.

