



# Converting between improper fractions and mixed numbers

Mana Maths

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## Te reo Māori terms



**hautau nui ake i te kotahi**

improper fraction

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**tau hanumi**

mixed number

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**tauoti**

whole number

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**toenga**

remainder

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# Foundation

1. Convert  $\frac{5}{2}$  to a mixed number.

2. Convert  $\frac{7}{3}$  to a mixed number.

3. Convert  $\frac{9}{4}$  to a mixed number.

4. Convert  $\frac{11}{5}$  to a mixed number.

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

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

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

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

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

- 10.** Convert  $\frac{15}{4}$  to a mixed number.
- 11.** Convert  $4\frac{1}{3}$  to an improper fraction.
- 12.** Convert  $5\frac{2}{7}$  to an improper fraction.
- 13.** Convert  $\frac{17}{5}$  to a mixed number.
- 14.** Convert  $\frac{14}{3}$  to a mixed number.
- 15.** Convert  $3\frac{3}{8}$  to an improper fraction.
- 16.** Convert  $6\frac{1}{6}$  to an improper fraction.

# Proficient

1. Convert  $\frac{19}{5}$  to a mixed number.
2. Convert  $\frac{22}{7}$  to a mixed number.
3. Convert  $\frac{31}{6}$  to a mixed number.
4. Convert  $\frac{27}{4}$  to a mixed number.
5. Convert  $4\frac{3}{5}$  to an improper fraction.
6. Convert  $7\frac{2}{3}$  to an improper fraction.
7. Convert  $5\frac{5}{8}$  to an improper fraction.
8. Convert  $9\frac{1}{4}$  to an improper fraction.
9. Fill in the blank:  $\frac{17}{4} = \square\frac{\square}{4}$ .

- 10.** Fill in the blank:  $3\frac{2}{7} = \frac{\square}{7}$ .
- 11.** Which is greater:  $\frac{11}{3}$   
or  $3\frac{1}{2}$ ?
- 12.** Is  $\frac{14}{5} = 2\frac{4}{5}$  correct?
- 13.** Is  $6\frac{1}{4} = \frac{25}{4}$  correct?
- 14.** Convert  $\frac{29}{8}$  to a mixed number.
- 15.** Convert  $8\frac{5}{6}$  to an improper fraction.
- 16.** Convert  $\frac{23}{9}$  to a mixed number.
- 17.** Convert  $2\frac{7}{10}$  to an improper fraction.
- 18.** Explain in one short sentence what the denominator tells you in  $4\frac{3}{7}$ .

# Excellence

1. A student says  $\frac{18}{5} = 3\frac{5}{5}$ .  
Are they correct? Explain.

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

3. Fill in both blanks:  $\frac{\square}{6} = 4\frac{\square}{6}$ .

4. Fill in both blanks:  $7\frac{\square}{8} = \frac{61}{8}$ .

5. Which is greater:  $\frac{23}{6}$   
or  $3\frac{4}{5}$ ? Show enough  
working to justify.

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

7. Write  $5\frac{7}{9}$  as an improper  
fraction, then say whether  
it is closer to 5 or 6.

8. Complete:  $\frac{\square}{7} = 2\frac{5}{7} = \frac{26}{\square}$ .

9. Is  $\frac{41}{6} = 6\frac{5}{6}$  correct?  
Explain what went wrong  
or why it works.

- 10.** A ribbon is  $\frac{17}{3}$  m long. Write this as a mixed number.
- 11.** A tank holds  $2\frac{3}{4}$  L. Write this as an improper fraction of litres.
- 12.** Which does not belong:  $\frac{10}{3}$ ,  $3\frac{1}{3}$ ,  $\frac{13}{4}$ , or  $\frac{20}{6}$ ?
- 13.** A baker uses  $3\frac{5}{6}$  cups of flour each batch. Write this as an improper fraction.
- 14.** A runner completes  $\frac{25}{8}$  km. Write this as a mixed number.
- 15.** Explain why  $\frac{n}{4} = 2\frac{1}{4}$  gives  $n = 9$ .
- 16.** Complete: if  $\frac{m}{5} = 6\frac{2}{5}$ , then  $m = \underline{\hspace{2cm}}$ .
- 17.** Convert  $12\frac{7}{12}$  to an improper fraction.
- 18.** Convert  $\frac{58}{9}$  to a mixed number.