

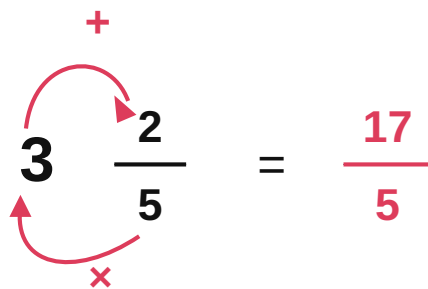
Boost Free Lessons - Year 6 Maths

Lesson 7: Mixed Numerals to Improper Fractions

Name: _____ Grade: _____ Date: _____

Worked Example 1

Change $3\frac{2}{5}$ into an improper fraction.



$$3\frac{2}{5} = \frac{17}{5}$$

1. Follow the arrows. Start at the **bottom** number and multiply it by the **whole** number.
2. $5 \times 3 = 15$.
3. Then **add** the top number: $15 + 2 = 17$. That answer goes on the **top**.
4. The bottom number stays exactly as it was, so the answer is $\frac{17}{5}$.

$$3\frac{2}{5} = \frac{17}{5}$$

Worked Example 2

Change $4\frac{1}{3}$ into an improper fraction.

1. Same method. Bottom times whole: $3 \times 4 = 12$.
2. Then add the top: $12 + 1 = 13$.
3. The 13 goes on top and the 3 stays on the bottom.
4. Check it back: $13 \div 3 = 4$ remainder 1, which is $4\frac{1}{3}$.

$$4\frac{1}{3} = \frac{13}{3}$$

Remember: Bottom times whole, then add the top. That answer goes on the top, and the bottom number never changes.



Question 1: Change each mixed numeral into an improper fraction.

1. $2\frac{1}{2}$

2. $3\frac{1}{4}$

3. $1\frac{3}{5}$

4. $5\frac{2}{3}$

5. $2\frac{5}{6}$

6. $4\frac{3}{8}$

7. $6\frac{1}{2}$

8. $3\frac{4}{7}$



Question 2: Answer the following.

1. Change $7\frac{2}{9}$ into an improper fraction.
2. Change $10\frac{1}{4}$ into an improper fraction.
3. Which is larger: $2\frac{3}{4}$ or $\frac{12}{5}$?
4. Add $1\frac{1}{2}$ and $2\frac{1}{2}$, giving your answer as a mixed numeral.
5. Why does the denominator stay the same when converting?
6. Write 5 as an improper fraction with a denominator of 3.



Question 3: Answer the following questions.

1. A recipe uses $2\frac{1}{4}$ cups of sugar. Write this as an improper fraction.
2. A ribbon is $3\frac{1}{2}$ m long. Write this in halves.
3. Three friends each drink $1\frac{1}{3}$ litres. Write the total as an improper fraction.
4. A journey takes $2\frac{3}{4}$ hours. Write this in quarters of an hour.
5. Explain which form, mixed numeral or improper fraction, is easier for multiplying.





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Answers: Mixed Numerals to Improper Fractions**Question 1**

1. $\frac{5}{2}$
2. $\frac{13}{4}$
3. $\frac{8}{5}$
4. $\frac{17}{3}$
5. $\frac{17}{6}$
6. $\frac{35}{8}$
7. $\frac{13}{2}$
8. $\frac{25}{7}$

Question 2

1. $\frac{65}{9}$
2. $\frac{41}{4}$
3. $2\frac{3}{4}$ (since $\frac{12}{5} = 2\frac{2}{5}$)
4. 4
5. The size of each piece does not change, only how many of them you are counting.
6. $\frac{15}{3}$

Question 3

1. $\frac{9}{4}$ cups
2. $\frac{7}{2}$ m
3. $\frac{12}{3} = 4$ litres
4. $\frac{11}{4}$ of an hour
5. The improper fraction, because you can multiply the numerators and denominators straight across.

