

Boost Free Lessons - Year 6 Maths

Lesson 6: Improper Fractions to Mixed Numerals

Name: _____ Grade: _____ Date: _____

Worked Example 1

Change $\frac{11}{4}$ into a mixed numeral.



4 quarters make 1 whole



3 quarters are left over

- Step 1.** How many times does the bottom number go into the top? 4 goes into 11 **twice**.
- That 2 becomes the **whole number** part of your answer.
- Step 2.** What is left over? $4 \times 2 = 8$, and $11 - 8 = 3$, so the remainder is **3**.
- Step 3.** The remainder goes on **top**, over the number you were dividing by. So the 3 sits over the 4.

$$\frac{11}{4} = 2 \frac{3}{4}$$

Worked Example 2

Change $\frac{18}{6}$ into a whole number.

- Divide the numerator by the denominator: $18 \div 6$.
- $18 \div 6 = 3$ with no remainder.
- Because nothing is left over, there is no fraction part.
- The answer is a whole number, not a mixed numeral.

$$\frac{18}{6} = 3$$

Remember: Divide the **numerator by the denominator**. The answer is the whole number, and the remainder becomes the new numerator over the same denominator.



Question 1: Change each improper fraction into a mixed numeral or whole number.

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

2. $\frac{9}{4}$

3. $\frac{13}{5}$

4. $\frac{17}{3}$

5. $\frac{20}{4}$

6. $\frac{23}{6}$

7. $\frac{15}{8}$

8. $\frac{29}{7}$



Question 2: Answer the following.

1. Change $\frac{25}{4}$ into a mixed numeral.
2. Change $\frac{31}{8}$ into a mixed numeral.
3. Change $\frac{42}{7}$ into a whole number.
4. Which is larger: $\frac{9}{4}$ or $2\frac{1}{3}$?
5. Write $\frac{11}{3}$ as a mixed numeral, then place it between two whole numbers.
6. Explain how you can tell $\frac{15}{4}$ is greater than 3 without converting it.



Question 3: Answer the following questions.

1. A recipe needs $\frac{7}{2}$ cups of flour. Write this as a mixed numeral.

2. Nine quarters of a pizza are left. Write this as a mixed numeral.

3. A plank is $\frac{13}{4}$ m long. Write this as a mixed numeral.

4. A jug holds $\frac{5}{2}$ litres. How many full litres does it hold, and what fraction is left?

5. Explain why $\frac{8}{8}$ is not an improper fraction in the usual sense.





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

1. $3\frac{1}{2}$
2. $2\frac{1}{4}$
3. $2\frac{3}{5}$
4. $5\frac{2}{3}$
5. 5
6. $3\frac{5}{6}$
7. $1\frac{7}{8}$
8. $4\frac{1}{7}$

Question 2

1. $6\frac{1}{4}$
2. $3\frac{7}{8}$
3. 6
4. $2\frac{1}{3}$ (since $\frac{9}{4} = 2\frac{1}{4}$)
5. $3\frac{2}{3}$, which lies between 3 and 4
6. 3 wholes would be $\frac{12}{4}$, and 15 quarters is more than 12 quarters.

Question 3

1. $3\frac{1}{2}$ cups
2. $2\frac{1}{4}$ pizzas
3. $3\frac{1}{4}$ m
4. 2 full litres, with $\frac{1}{2}$ left
5. It equals exactly 1, so there is no fraction part left over.

