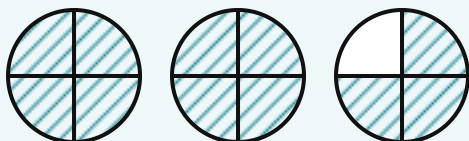


Mixed numbers and improper fractions

Change each number to the other form. Use the models to help.

1 Study the model.

Worked example



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

- ① Mixed to improper: 2 wholes are $2 \times 4 = 8$ quarters, plus 3 more: $8 + 3 = 11$. So $2\frac{3}{4} = \frac{11}{4}$.
- ② Improper to mixed: $11 \div 4 = 2$ R 3. That is 2 wholes and 3 quarters left: $2\frac{3}{4}$.
- ③ The denominator does not change: the parts are still quarters.

2 Write each mixed number as an improper fraction.

- | | | | |
|---|---|---|---|
| 1. $1\frac{1}{2} = \frac{\boxed{}}{\boxed{}}$ | 2. $2\frac{1}{3} = \frac{\boxed{}}{\boxed{}}$ | 3. $1\frac{3}{4} = \frac{\boxed{}}{\boxed{}}$ | 4. $3\frac{1}{2} = \frac{\boxed{}}{\boxed{}}$ |
| 5. $2\frac{2}{5} = \frac{\boxed{}}{\boxed{}}$ | 6. $1\frac{5}{6} = \frac{\boxed{}}{\boxed{}}$ | 7. $4\frac{1}{3} = \frac{\boxed{}}{\boxed{}}$ | 8. $3\frac{3}{8} = \frac{\boxed{}}{\boxed{}}$ |

3 Write each improper fraction as a mixed number or a whole number.

- | | | | |
|--|--|--|--|
| 9. $\frac{5}{2} = \frac{\boxed{}}{\boxed{}}$ | 10. $\frac{7}{3} = \frac{\boxed{}}{\boxed{}}$ | 11. $\frac{9}{4} = \frac{\boxed{}}{\boxed{}}$ | 12. $\frac{11}{3} = \frac{\boxed{}}{\boxed{}}$ |
| 13. $\frac{13}{5} = \frac{\boxed{}}{\boxed{}}$ | 14. $\frac{17}{6} = \frac{\boxed{}}{\boxed{}}$ | 15. $\frac{19}{8} = \frac{\boxed{}}{\boxed{}}$ | 16. $\frac{12}{4} = \frac{\boxed{}}{\boxed{}}$ |

4 Solve the fall fair baking problems.

17. The pie table has 2 whole pies and $\frac{5}{8}$ of another pie.

Write the amount as an improper fraction.

Answer

18. Each cake is cut into 6 slices. There are 17 slices left.

Write the number of cakes as a mixed number.

Answer