

Mixed numbers and fractions

Years 5-6 | Upper KS2

Name _____ Class _____ Date _____

Score _____ / 16

Show your working. Give answers to questions 9–16 as mixed numbers in their simplest form.

Example: $5 \frac{2}{3} = \frac{17}{3}$. Multiply the whole number by the denominator ($5 \times 3 = 15$), then add the numerator ($15 + 2 = 17$).

Section A • Converting

1. Write $\frac{7}{3}$ as a mixed number.

Answer

2. Write $\frac{11}{4}$ as a mixed number.

Answer

3. Write $\frac{17}{5}$ as a mixed number.

Answer

4. Write $\frac{23}{6}$ as a mixed number.

Answer

5. Write $2 \frac{1}{3}$ as an improper fraction.

Answer

6. Write $3 \frac{2}{5}$ as an improper fraction.

Answer

7. Write $4 \frac{3}{8}$ as an improper fraction.

Answer

8. Write $1 \frac{5}{6}$ as an improper fraction.

Answer

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Section B · Adding and subtracting mixed numbers

9. $1 \frac{3}{4} + \frac{3}{4} =$

10. $2 \frac{1}{3} + 1 \frac{1}{3} =$

11. $2 \frac{1}{2} + 1 \frac{3}{4} =$

12. $2 \frac{2}{3} + 1 \frac{1}{6} =$

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

14. $2 \frac{5}{6} - 1 \frac{1}{6} =$

15. $3 \frac{1}{2} - 1 \frac{3}{4} =$

16. $3 \frac{1}{3} - 1 \frac{5}{6} =$

Mixed numbers and fractions · answers

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Check each answer and its method. Equivalent forms are correct unless a question asks for a particular form or degree of accuracy.

Section A · Converting

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

7 divided by 3 gives 2 whole and remainder 1: $2 \frac{1}{3}$.

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

11 divided by 4 gives 2 whole and remainder 3: $2 \frac{3}{4}$.

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

17 divided by 5 gives 3 whole and remainder 2: $3 \frac{2}{5}$.

4. $3 \frac{5}{6}$

23 divided by 6 gives 3 whole and remainder 5: $3 \frac{5}{6}$.

5. $\frac{7}{3}$

$2 \times 3 + 1 = 7$; keep denominator 3.

6. $\frac{17}{5}$

$3 \times 5 + 2 = 17$; keep denominator 5.

7. $\frac{35}{8}$

$4 \times 8 + 3 = 35$; keep denominator 8.

8. $\frac{11}{6}$

$1 \times 6 + 5 = 11$; keep denominator 6.

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Section B · Adding and subtracting mixed numbers

9. **2 1/2**

$$7/4 + 3/4 = 7/4 + 3/4 = 5/2.$$

10. **3 2/3**

$$7/3 + 4/3 = 7/3 + 4/3 = 11/3.$$

11. **4 1/4**

$$5/2 + 7/4 = 10/4 + 7/4 = 17/4.$$

12. **3 5/6**

$$8/3 + 7/6 = 16/6 + 7/6 = 23/6.$$

13. **2 1/2**

$$13/4 - 3/4 = 13/4 - 3/4 = 5/2.$$

14. **1 2/3**

$$17/6 - 7/6 = 17/6 - 7/6 = 5/3.$$

15. **1 3/4**

$$7/2 - 7/4 = 14/4 - 7/4 = 7/4.$$

16. **1 1/2**

$$10/3 - 11/6 = 20/6 - 11/6 = 3/2.$$