

Year 5: Adding and subtracting mixed numbers: answers

Year 5 - Equivalent Fractions and Mixed Numbers - Lesson 6.6

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-5/ch06-fractions/adding-and-subtracting-mixed-numbers/

Exercise 6F Adding and subtracting mixed numbers Non-calculator

1 Work out each addition.

(a) $1\frac{1}{5} + 2\frac{2}{5}$

Answer: $3\frac{3}{5}$

(b) $3\frac{2}{7} + 1\frac{3}{7}$

Answer: $4\frac{5}{7}$

(c) $2\frac{1}{8} + 4\frac{3}{8}$

Answer: $6\frac{1}{2}$

(d) $5\frac{3}{10} + 2\frac{4}{10}$

Answer: $7\frac{7}{10}$

2 Work out each addition. Each answer is a mixed number with the fraction part less than 1.

(a) $2\frac{3}{4} + 1\frac{3}{4}$

Answer: $4\frac{1}{2}$

(b) $3\frac{5}{6} + 2\frac{3}{6}$

Answer: $6\frac{1}{3}$

(c) $1\frac{4}{5} + 3\frac{3}{5}$

Answer: $5\frac{2}{5}$

(d) $2\frac{7}{8} + 1\frac{5}{8}$

Answer: $4\frac{1}{2}$

3 Work out each addition. Change to a common denominator first.

(a) $1\frac{1}{2} + 2\frac{1}{4}$

Answer: $3\frac{3}{4}$

(b) $3\frac{3}{10} + 1\frac{1}{5}$

Answer: $4\frac{1}{2}$

(c) $2\frac{2}{3} + 1\frac{5}{6}$

Answer: $4\frac{1}{2}$

(d) $4\frac{3}{4} + 1\frac{5}{8}$

Answer: $6\frac{3}{8}$

4 Work out each subtraction.

(a) $4\frac{5}{6} - 1\frac{1}{6}$

Answer: $3\frac{2}{3}$

(b) $6\frac{7}{8} - 2\frac{3}{8}$

Answer: $4\frac{1}{2}$

(c) $3\frac{9}{10} - 1\frac{4}{10}$

Answer: $2\frac{1}{2}$

(d) $5\frac{4}{5} - 2\frac{1}{5}$

Answer: $3\frac{3}{5}$

5 Work out each subtraction. Change to a common denominator first.

(a) $5\frac{7}{8} - 2\frac{3}{4}$

Answer: $3\frac{1}{8}$

(b) $3\frac{5}{6} - 1\frac{1}{3}$

Answer: $2\frac{1}{2}$

(c) $6\frac{9}{10} - 2\frac{2}{5}$

Answer: $4\frac{1}{2}$

(d) $4\frac{3}{4} - 1\frac{1}{2}$

Answer: $3\frac{1}{4}$

6 Work out each subtraction. Change to improper fractions when you need to.

(a) $3\frac{1}{5} - 1\frac{3}{5}$

Answer: $1\frac{3}{5}$

(b) $4\frac{1}{4} - 2\frac{3}{4}$

Answer: $1\frac{1}{2}$

(c) $2\frac{1}{8} - 1\frac{5}{8}$

Answer: $\frac{1}{2}$

(d) $6\frac{1}{10} - 3\frac{7}{10}$

Answer: $2\frac{2}{5}$

7 Work out each subtraction from a whole number.

(a) $4 - 1\frac{3}{8}$

Answer: $2\frac{5}{8}$

(b) $5 - 2\frac{1}{4}$

Answer: $2\frac{3}{4}$

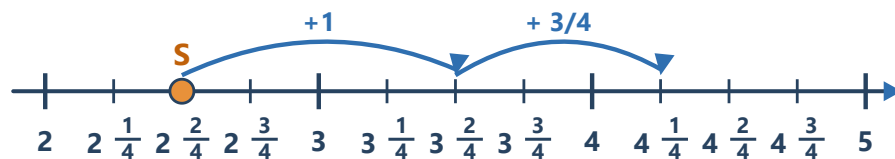
(c) $3 - 1\frac{2}{5}$

Answer: $1\frac{3}{5}$

(d) $6 - 2\frac{7}{10}$

Answer: $3\frac{3}{10}$

8 Use the number line to work out $2\frac{1}{2} + 1\frac{3}{4}$.



Answer: $4\frac{1}{4}$

9 A cake recipe uses $1\frac{1}{2}$ cups of flour. A second recipe uses $2\frac{3}{4}$ cups. How much flour do they use altogether?

Answer: $4\frac{1}{4}$ cups

10 Zainab runs $2\frac{3}{4}$ km. Liam runs $1\frac{1}{2}$ km. How much further does Zainab run?

Answer: $1\frac{1}{4}$ km

- 11** A plank is 5 m long. Jack cuts off a piece $1\frac{3}{4}$ m long and then a piece $2\frac{1}{2}$ m long. How much of the plank is left?

Answer: $\frac{3}{4}$ m

- 12** Find each missing number.

(a) $2\frac{3}{4} + \boxed{?} = 4\frac{1}{4}$

Answer: $1\frac{1}{2}$

(b) $\boxed{?} - 1\frac{1}{5} = 2\frac{3}{5}$

Answer: $3\frac{4}{5}$

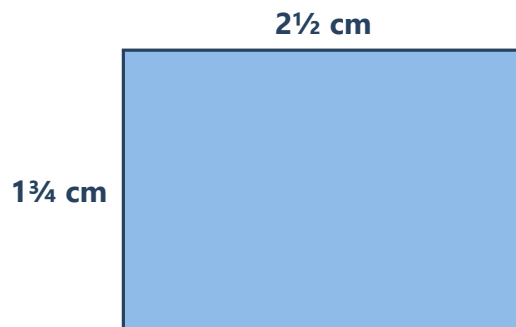
- 13** Ravi says, " $3\frac{1}{5} - 1\frac{3}{5} = 2\frac{2}{5}$." What mistake has Ravi made? What is the correct answer?

Answer: He took the smaller fraction from the bigger. $1\frac{3}{5}$

- 14** Mia says, " $2\frac{3}{4} + 1\frac{3}{4} = 3\frac{6}{4}$." Is her answer finished? Explain and give the correct answer.

Answer: No, $\frac{6}{4}$ is more than a whole. $4\frac{1}{2}$

- 15** Challenge! A rectangle is $2\frac{1}{2}$ cm long and $1\frac{3}{4}$ cm wide. Work out its perimeter.



Answer: $8\frac{1}{2}$ cm