

Boost Free Lessons - Year 5 Maths

Lesson 11: Adding Fractions with the Same Denominator

Name: _____ Grade: _____ Date: _____

Worked Example 1

Work out $\frac{2}{7} + \frac{3}{7}$.



five sevenths

1. The denominators are the same, so the pieces are already the same size.
2. Add the **numerators** only: $2 + 3 = 5$.
3. The denominator stays as 7, because the size of each piece has not changed.
4. The bar shows 5 of the 7 equal parts shaded.

$$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$$

Worked Example 2

Work out $\frac{3}{8} + \frac{3}{8}$.

1. Add the numerators: $3 + 3 = 6$.
2. The denominator stays as 8, giving $\frac{6}{8}$.
3. Now check whether it can be simplified. Both 6 and 8 divide by 2.
4. $6 \div 2 = 3$ and $8 \div 2 = 4$, so the simplest form is $\frac{3}{4}$.

$$\frac{3}{8} + \frac{3}{8} = \frac{6}{8} = \frac{3}{4}$$

Remember: When the denominators are the **same**, add or subtract the numerators only. The denominator never changes. Always check whether your answer can be simplified.



Question 1: Work out the following, simplifying where you can.

1. $\frac{1}{5} + \frac{2}{5}$

2. $\frac{3}{9} + \frac{4}{9}$

3. $\frac{2}{11} + \frac{5}{11}$

4. $\frac{4}{7} + \frac{2}{7}$

5. $\frac{1}{6} + \frac{3}{6}$

6. $\frac{2}{10} + \frac{4}{10}$

7. $\frac{5}{12} + \frac{3}{12}$

8. $\frac{1}{4} + \frac{1}{4}$



Question 2: Work out the following.

1. $\frac{5}{8} - \frac{2}{8}$

2. $\frac{7}{9} - \frac{4}{9}$

3. $\frac{9}{10} - \frac{3}{10}$

4. $1 - \frac{3}{5}$

5. $1 - \frac{4}{7}$

6. $\frac{3}{8} + \frac{2}{8} + \frac{1}{8}$



Question 3: Answer the following questions.

1. Ella ate $\frac{2}{8}$ of a pizza and Sam ate $\frac{3}{8}$. How much did they eat altogether?
2. A jug was $\frac{7}{10}$ full. $\frac{3}{10}$ was poured out. How much is left?
3. Three friends each ate $\frac{1}{6}$ of a cake. How much was eaten in total?
4. A bottle holds 1 litre. $\frac{2}{5}$ is drunk. What fraction remains?
5. Explain why $\frac{1}{4} + \frac{1}{4}$ is not $\frac{2}{8}$.





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Answers: Adding Fractions with the Same Denominator**Question 1**

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

2. $\frac{7}{9}$

3. $\frac{7}{11}$

4. $\frac{6}{7}$

5. $\frac{4}{6} = \frac{2}{3}$

6. $\frac{6}{10} = \frac{3}{5}$

7. $\frac{8}{12} = \frac{2}{3}$

8. $\frac{2}{4} = \frac{1}{2}$

Question 2

1. $\frac{3}{8}$

2. $\frac{3}{9} = \frac{1}{3}$

3. $\frac{6}{10} = \frac{3}{5}$

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

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

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

Question 3

1. $\frac{5}{8}$

2. $\frac{4}{10} = \frac{2}{5}$

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

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

5. You only add the numerators. The denominator tells you the size of each piece, and that does not change when you add more pieces.

