

WA4MNAFR1

Calculating with number

Core + Challenge

Adding Fractions (Like Denominators)

I can add fractions with the same denominator.

Name: _____ Date: _____ Score: / 53

Key idea

Adding fractions with the same (like) denominator: add the numerators and keep the denominator the same. E.g. $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$. If the numerator is greater than or equal to the denominator, convert the answer to a mixed number.

A Fluency *practise the skill*

/16 marks

Add each pair of fractions. Keep the denominator the same.

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

2. $\frac{1}{4} + \frac{2}{4}$ _____

3. $\frac{3}{8} + \frac{2}{8}$ _____

4. $\frac{1}{6} + \frac{4}{6}$ _____

5. $\frac{2}{7} + \frac{3}{7}$ _____

6. $\frac{2}{9} + \frac{3}{9}$ _____

7. $\frac{3}{10} + \frac{4}{10}$ _____

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

9. $\frac{4}{11} + \frac{5}{11}$ _____

10. $\frac{2}{12} + \frac{3}{12}$ _____

11. $\frac{1}{5} + \frac{3}{5}$ _____

12. $\frac{2}{8} + \frac{3}{8}$ _____

13. $\frac{3}{7} + \frac{1}{7}$ _____

14. $\frac{2}{11} + \frac{4}{11}$ _____

15. $\frac{5}{9} + \frac{2}{9}$ _____

16. $\frac{1}{12} + \frac{6}{12}$ _____

B Core *apply the skill to problems*

/21 marks

- 1 A recipe uses $\frac{2}{6}$ cup of sugar and $\frac{3}{6}$ cup of flour measured in the same-sized cup. How much is that in total?

[3 marks]

Answer: _____

- 2 On Monday, Mia reads $\frac{2}{8}$ of a book. On Tuesday, she reads another $\frac{3}{8}$ of the book. (a) What fraction of the book has she read in total? (b) What fraction of the book does she still have left to read?

[4 marks]

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Answer: _____

3

A painter uses $\frac{1}{5}$ of a tin of paint on one wall and $\frac{2}{5}$ of a tin on another wall. How much paint (as a fraction of a tin) has been used in total?

[3 marks]

Answer: _____

4

A relay team runs $\frac{3}{9}$ of a race in the first leg and $\frac{4}{9}$ in the second leg. (a) What fraction of the race have they completed after two legs? (b) If the race has 3 equal legs in total, what fraction is left for the third leg?

[4 marks]

Answer: _____

5

A tank is filled with $\frac{3}{7}$ of its capacity in the morning and $\frac{2}{7}$ more in the afternoon. What fraction of the tank is full by the end of the day?

[3 marks]

Answer: _____

6

A student spends $\frac{2}{10}$ of their pocket money on snacks and $\frac{5}{10}$ on a toy. (a) What fraction of their pocket money has been spent in total? (b) What fraction of their pocket money do they have left?

[4 marks]

Answer: _____

C

Reasoning *explain, justify and check*

/9 marks

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1

Explain why you only add the numerators (not the denominators) when adding fractions with the same denominator.

[2 marks]

2

A student adds $\frac{3}{8} + \frac{2}{8}$ and writes the answer as $\frac{5}{16}$, adding both the numerators and the denominators. Explain the student's error and give the correct answer.

[2 marks]

3

Explain why $\frac{4}{6} + \frac{4}{6}$ gives an answer greater than 1 whole, and what this means about the result.

[2 marks]

4

A student says that adding two fractions with the same denominator will always give an answer less than 1. Is this true? Explain, using an example where the sum is greater than 1.

[3 marks]

D

Challenge *multi-step and problem-solving*

/7 marks

1

Two fractions with denominator 9 add up to $\frac{8}{9}$. If one of the fractions is $\frac{3}{9}$, what is the other fraction?

[2 marks]

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Answer: _____**2**Find two fractions with denominator 7 that add up to exactly 1 whole ($7/7$).**[2 marks]****Answer:** _____**3**Three fractions, each with denominator 10, add up to $9/10$. The first fraction is $2/10$ and the second is $3/10$. What is the third fraction? Then explain whether the three fractions could all have been equal instead, and why or why not.**[3 marks]****Answer:** _____

How did I go?

Fluency ____/16 Core ____/21 Reasoning ____/9 Challenge ____/7 **Total ____/53**

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