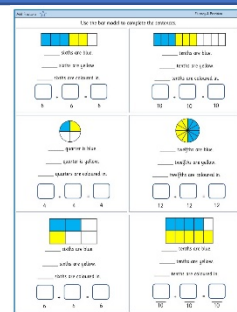


★ Add Fractions

Children use practical equipment and pictorial representations to add two or more fractions with the same denominator where the total is less than 1. They understand that we only add the numerators and the denominators stay the same.

On this sheet, they use given models to complete the calculations.

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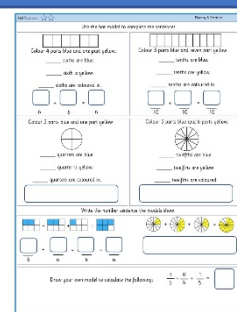


★★ Add Fractions

Children use practical equipment and pictorial representations to add two or more fractions with the same denominator where the total is less than 1. They understand that we only add the numerators and the denominators stay the same.

On this sheet, they will complete the given models to answer the calculations.

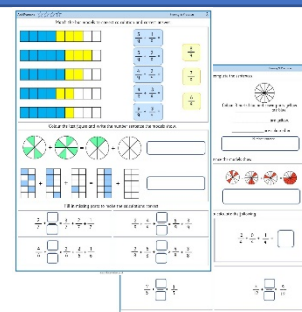
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★★★ Add Fractions

On this sheet, children will draw their own models and write the calculations represented. They also complete another sheet where they use more of their reasoning skills to match models and calculations.

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Reasoning & Problem Solving

Add Fractions

Children continue working on adding fractions.

They will find mistakes in two reasoning statements and solve the word problem.

Rosie and Esin are solving:

$$\frac{5}{9} + \frac{2}{9}$$

Rosie: The answer is $\frac{7}{9}$

Esin: The answer is $\frac{7}{18}$

Who do you agree with? Explain why.

Zach eats $\frac{1}{3}$ of the pizza and Malachi eats $\frac{1}{3}$ more of the pizza than Zach eats.

What fraction of the pizza do they eat altogether? Do they eat the whole pizza?



Use the bar model to complete the sentences.



_____ sixths are blue.

_____ sixths are yellow.

_____ sixths are coloured in.

$$\frac{\boxed{}}{6} + \frac{\boxed{}}{6} = \frac{\boxed{}}{6}$$

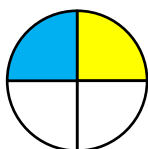


_____ tenths are blue.

_____ tenths are yellow.

_____ tenths are coloured in.

$$\frac{\boxed{}}{10} + \frac{\boxed{}}{10} = \frac{\boxed{}}{10}$$

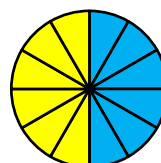


_____ quarter is blue.

_____ quarter is yellow.

_____ quarters are coloured in.

$$\frac{\boxed{}}{4} + \frac{\boxed{}}{4} = \frac{\boxed{}}{4}$$



_____ twelfths are blue.

_____ twelfths are yellow.

_____ twelfths are coloured in.

$$\frac{\boxed{}}{12} + \frac{\boxed{}}{12} = \frac{\boxed{}}{12}$$

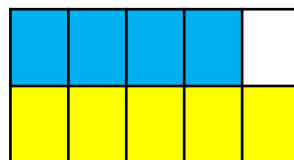


_____ sixths are blue.

_____ sixths are yellow.

_____ sixths are coloured in.

$$\frac{\boxed{}}{6} + \frac{\boxed{}}{6} = \frac{\boxed{}}{6}$$



_____ tenths are blue.

_____ tenths are yellow.

_____ tenths are coloured in.

$$\frac{\boxed{}}{10} + \frac{\boxed{}}{10} = \frac{\boxed{}}{10}$$



Use the bar model to complete the sentences.



3 sixths are blue.

2 sixths are yellow.

5 sixths are coloured in.

$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

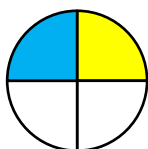


3 tenths are blue.

3 tenths are yellow.

6 tenths are coloured in.

$$\frac{3}{10} + \frac{3}{10} = \frac{6}{10}$$

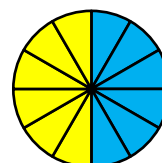


1 quarter is blue.

1 quarter is yellow.

2 quarters are coloured in.

$$\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$$



6 twelfths are blue.

6 twelfths are yellow.

12 twelfths are coloured in.

$$\frac{6}{12} + \frac{6}{12} = \frac{12}{12}$$

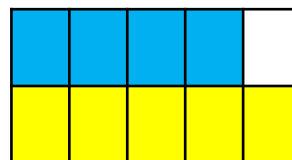


2 sixths are blue.

1 sixths are yellow.

3 sixths are coloured in.

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



4 tenths are blue.

5 tenths are yellow.

9 tenths are coloured in.

$$\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$$



Use the bar model to complete the sentences.



Colour 4 parts blue and one part yellow.

_____ sixths are blue.

_____ sixth is yellow.

_____ sixths are coloured in.

$$\frac{\boxed{}}{6} + \frac{\boxed{}}{6} = \frac{\boxed{}}{6}$$



Colour 3 parts blue and seven part yellow.

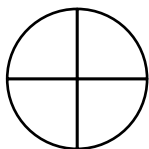
_____ tenths are blue.

_____ tenths are yellow.

_____ tenths are coloured in.

$$\frac{\boxed{}}{10} + \frac{\boxed{}}{10} = \frac{\boxed{}}{10}$$

Colour 2 parts blue and one part yellow.

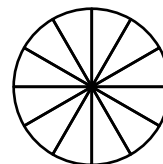


_____ quarters are blue.

_____ quarter is yellow.

_____ quarters are coloured in.

Colour 5 parts blue and 6 parts yellow.

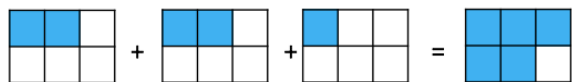


_____ twelfths are blue.

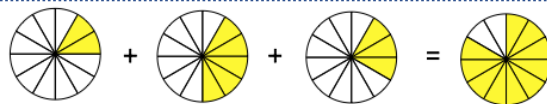
_____ twelfths are yellow.

_____ twelfths are coloured

Write the number sentence the models show.



$$\frac{\boxed{}}{6} + \frac{\boxed{}}{6} + \frac{\boxed{}}{6} = \frac{\boxed{}}{6}$$



Draw your own model to calculate the following:

$$\frac{3}{5} + \frac{0}{5} + \frac{1}{5} =$$



Use the bar model to complete the sentences.



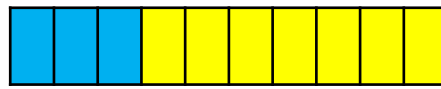
Colour 4 parts blue and one part yellow.

4 sixths are blue.

1 sixth is yellow.

5 sixths are coloured in.

$$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$



Colour 3 parts blue and seven part yellow.

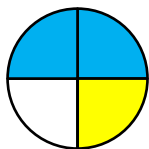
3 tenths are blue.

7 tenths are yellow.

10 tenths are coloured in.

$$\frac{3}{10} + \frac{7}{10} = \frac{10}{10}$$

Colour 2 parts blue and one part yellow.



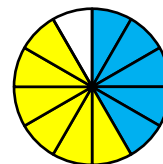
2 quarters are blue.

1 quarter is yellow.

3 quarters are coloured in.

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

Colour 5 parts blue and 6 parts yellow.



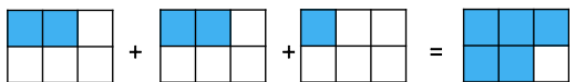
5 twelfths are blue.

6 twelfths are yellow.

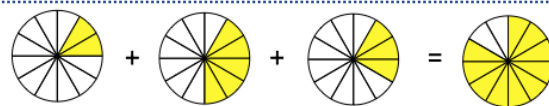
11 twelfths are coloured

$$\frac{5}{12} + \frac{6}{12} = \frac{11}{12}$$

Write the number sentence the models show.



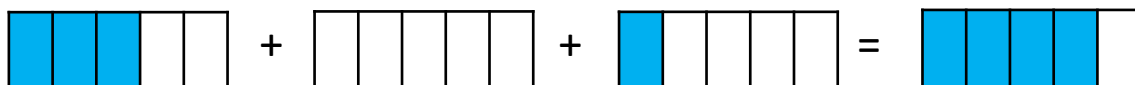
$$\frac{2}{6} + \frac{2}{6} + \frac{1}{6} = \frac{5}{6}$$



$$\frac{2}{12} + \frac{5}{12} + \frac{3}{12} = \frac{10}{12}$$

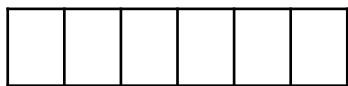
Draw your own model to calculate the following:

$$\frac{3}{5} + \frac{0}{5} + \frac{1}{5} = \frac{4}{5}$$





Use the bar model to complete the sentences.



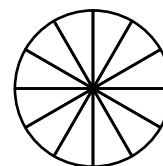
Colour 4 parts blue and one part yellow.

_____ are blue.

_____ is yellow.

_____ are coloured in.

Number sentence:



Colour 3 parts blue and seven parts yellow.

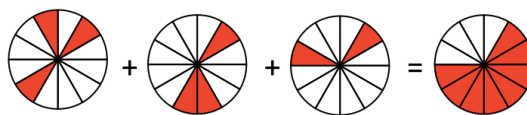
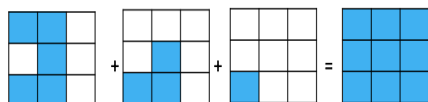
_____ are blue.

_____ are yellow.

_____ are coloured in.

Number sentence:

Write the number sentence the models show.



Draw your own models to calculate the following:

$$\frac{2}{7} + \frac{2}{7} + \frac{1}{7} = \frac{5}{7}$$

$$\frac{2}{4} + \frac{0}{4} + \frac{1}{4} =$$

$$\frac{2}{5} + \frac{\boxed{}}{\boxed{}} = \frac{5}{5}$$

$$\frac{3}{12} + \frac{\boxed{}}{\boxed{}} = \frac{9}{12}$$



Use the bar model to complete the sentences.



Colour 4 parts blue and one part yellow.

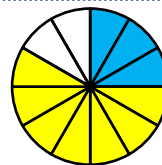
4 sixths are blue.

1 sixth is yellow.

5 sixths are coloured in.

Number sentence:

$$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$



Colour 3 parts blue and seven parts yellow.

3 twelfths are blue.

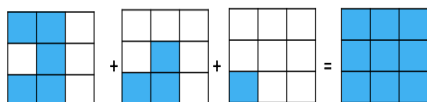
7 twelfths are yellow.

10 twelfths are coloured in.

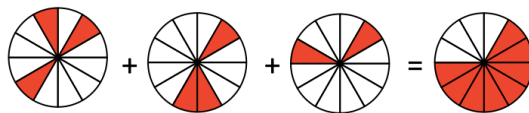
Number sentence:

$$\frac{3}{12} + \frac{7}{12} = \frac{10}{12}$$

Write the number sentence the models show.



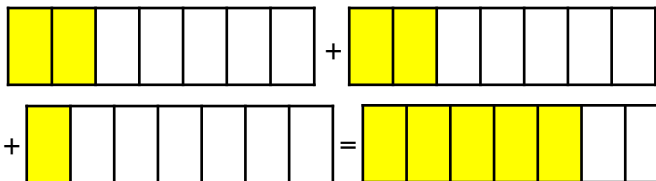
$$\frac{5}{9} + \frac{3}{9} + \frac{1}{9} = \frac{9}{9}$$



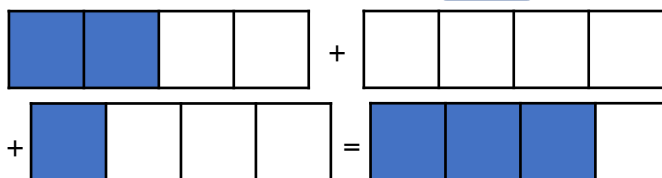
$$\frac{3}{12} + \frac{3}{12} + \frac{2}{12} = \frac{8}{12}$$

Draw your own models to calculate the following:

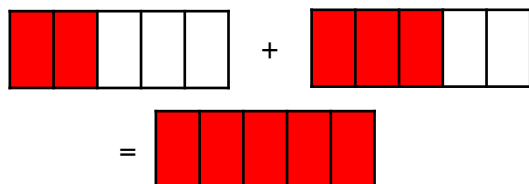
$$\frac{2}{7} + \frac{2}{7} + \frac{1}{7} = \frac{5}{7}$$



$$\frac{2}{4} + \frac{0}{4} + \frac{1}{4} = \frac{3}{4}$$



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



$$\frac{3}{12} + \frac{6}{12} = \frac{9}{12}$$





Match the bar models to the correct calculation and the correct answer.



$$\frac{5}{9} + \frac{1}{9} =$$



$$\frac{5}{9} + \frac{2}{9} =$$

$$\frac{8}{9}$$



$$\frac{4}{9} + \frac{2}{9} =$$

$$\frac{7}{9}$$



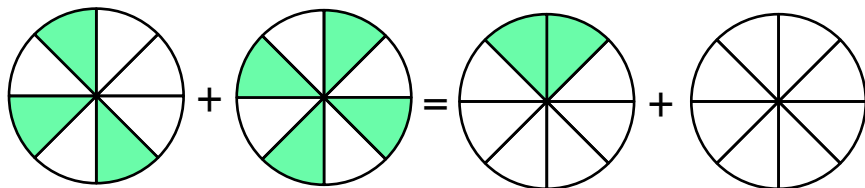
$$\frac{4}{9} + \frac{3}{9} =$$

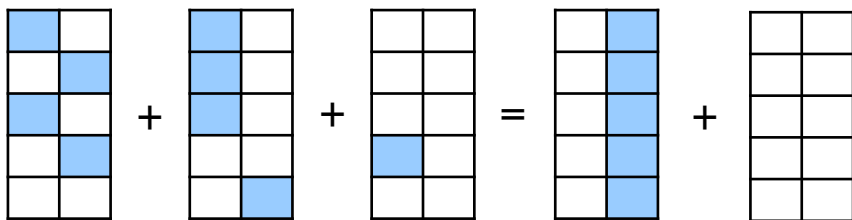
$$\frac{6}{9}$$



$$\frac{5}{9} + \frac{3}{9} =$$

Colour in the last model and write the number sentence the models show.





Fill in missing parts to make the calculations correct.

$$\frac{2}{7} + \frac{\boxed{}}{\boxed{}} = \frac{3}{7} + \frac{2}{7} + \frac{1}{7}$$

$$\frac{2}{9} + \frac{4}{9} + \frac{\boxed{}}{\boxed{}} = \frac{5}{9} + \frac{3}{9}$$

$$\frac{4}{6} + \frac{\boxed{}}{\boxed{}} < \frac{3}{6} + \frac{2}{6} + \frac{1}{6}$$

$$\frac{2}{8} + \frac{6}{8} + \frac{\boxed{}}{\boxed{}} > \frac{4}{8} + \frac{3}{8}$$



Match the bar models to the correct calculation and the correct answer.



$$\frac{5}{9} + \frac{1}{9} =$$

$$\frac{5}{9} + \frac{2}{9} =$$

$$\frac{4}{9} + \frac{2}{9} =$$

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

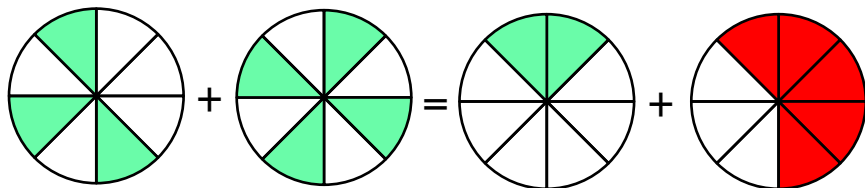
$$\frac{5}{9} + \frac{3}{9} =$$

$$\frac{8}{9}$$

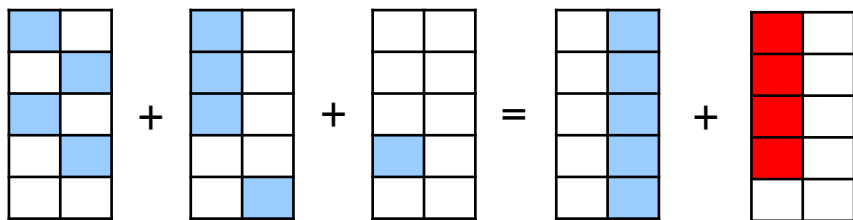
$$\frac{7}{9}$$

$$\frac{6}{9}$$

Colour in the last model and write the number sentence the models show.



$$\frac{3}{8} + \frac{4}{8} = \frac{2}{8} + \frac{5}{8}$$



$$\frac{4}{10} + \frac{4}{10} + \frac{1}{10} = \frac{5}{10} + \frac{4}{10}$$

Fill in missing parts to make the calculations correct.

$$\frac{2}{7} + \frac{\boxed{4}}{\boxed{7}} = \frac{3}{7} + \frac{2}{7} + \frac{1}{7}$$

$$\frac{2}{9} + \frac{4}{9} + \frac{\boxed{2}}{\boxed{9}} = \frac{5}{9} + \frac{3}{9}$$

$$\frac{4}{6} + \frac{\boxed{1}}{\boxed{6}} < \frac{3}{6} + \frac{2}{6} + \frac{1}{6}$$

$$\frac{2}{8} + \frac{6}{8} + \frac{\boxed{0}}{\boxed{8}} > \frac{4}{8} + \frac{3}{8}$$

Rosie and Esin are solving:

$$\frac{5}{9} + \frac{2}{9}$$

Rosie



The answer is $\frac{7}{9}$

Esin



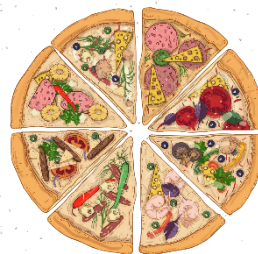
The answer is $\frac{7}{18}$

Who do you agree with?
Explain why.



Zach eats $\frac{3}{8}$ of the pizza and

Malachi eats $\frac{1}{8}$ more of the pizza
than Zach eats.



What fraction of the pizza do they
eat altogether?
Do they eat the whole pizza?

Rosie and Esin are solving:

$$\frac{5}{9} + \frac{2}{9}$$

Rosie



The answer is $\frac{7}{9}$

Esin



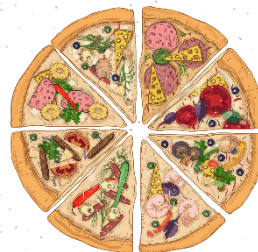
The answer is $\frac{7}{18}$

Who do you agree with?
Explain why.



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than Zach eats.



What fraction of the pizza do they
eat altogether?
Do they eat the whole pizza?

Rosie and Esin are solving:

$$\frac{5}{9} + \frac{2}{9}$$

Rosie



The answer is $\frac{7}{9}$

Esin



The answer is $\frac{7}{18}$

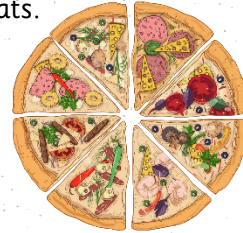
Who do you agree with? Explain why.

Rosie is correct. Esin has made the mistake of also adding the denominators. Children could prove why Esin is wrong using a bar model or strip diagram.



Zach eats $\frac{3}{8}$ of the pizza and

Malachi eats $\frac{1}{8}$ more of the pizza than Zach eats.



What fraction of the pizza do they eat altogether?

Do they eat the whole pizza?

$$\frac{3}{8} + \frac{1}{8} = \frac{4}{8}$$

Malachi eats.

$$\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

Eat altogether.

No, they did not eat the whole pizza.

Rosie and Esin are solving:

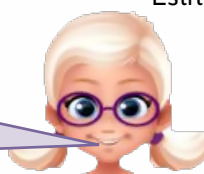
$$\frac{5}{9} + \frac{2}{9}$$

Rosie



The answer is $\frac{7}{9}$

Esin



The answer is $\frac{7}{18}$

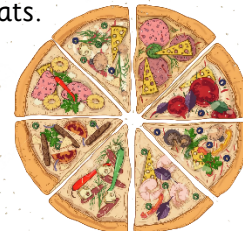
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Malachi eats $\frac{1}{8}$ more of the pizza than Zach eats.



What fraction of the pizza do they eat altogether?

Do they eat the whole pizza?

$$\frac{3}{8} + \frac{1}{8} = \frac{4}{8}$$

Malachi eats.

$$\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

Eat altogether.

No, they do not eat the whole pizza.