

Week 5 of 7

Fractions

Add fractions



Add 2 or more fractions

Subtract fractions



Subtract 2 fractions

Subtract from whole amounts

Mon - Adding Fractions (R)

Tues - Add 2 or more Fractions

Wed - Subtract Fractions (R)

Thurs - Subtract 2 or more Fractions

Fri - Subtract from whole amount



Tuesday



Tuesday

IALT: add 2 or more fractions

$\frac{1}{2}$ of 5

$\frac{1}{2}$ of 20

$\frac{1}{2}$ of 30

$\frac{1}{2}$ of 90

$\frac{1}{4}$ of 60

$\frac{1}{4}$ of 100

$\frac{1}{4}$ of 200

$\frac{1}{4}$ of 80

$\frac{1}{4}$ of 1000

$\frac{1}{2}$ of 36

$\frac{1}{2}$ of 37

$\frac{1}{2}$ of 32

$\frac{1}{2}$ of 89

$\frac{1}{2}$ of 67

Challenge

Have you would you work out $\frac{1}{3}$ of 60?



RECAP!

Use 2 different colours when modelling the shading.

YUM YUM. I was having a pizza with my family.

I was allowed 2 slices.

How would we shade this?

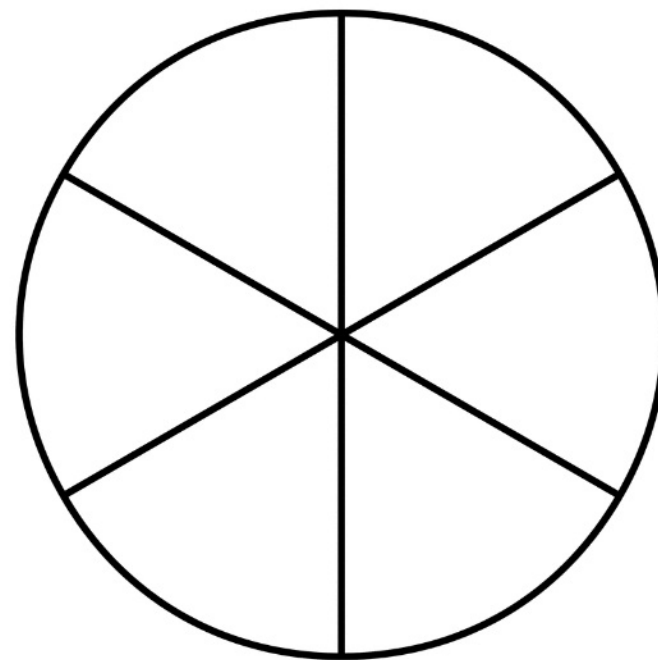
What fraction is this?

Granny didn't want her slices. She gave it to me.

How would I shade this?

What fraction is this?

What have we *added*?



RECAP!

Use 2 different colours when modelling the shading.

YUM YUM. I was having a pizza with my family.

I was allowed 2 slices.

How would we shade this?

What fraction is this?

$\frac{2}{6}$

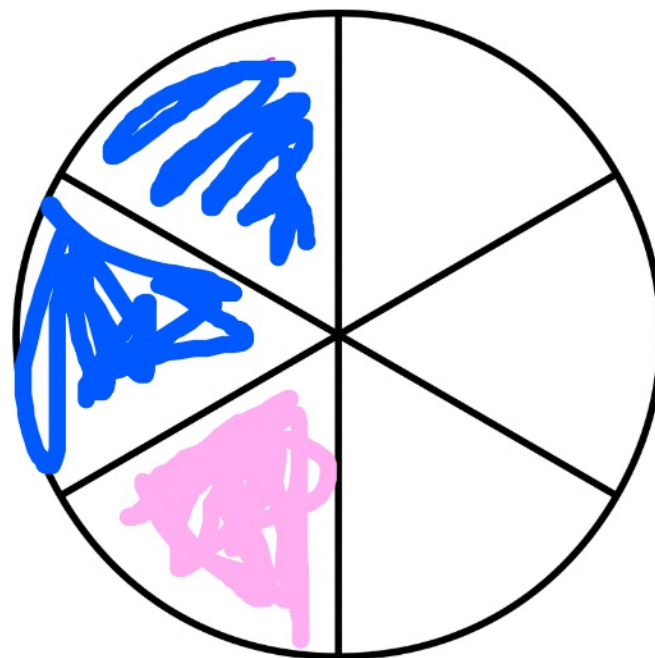
Granny didn't want her slices. She gave it to me.

How would I shade this?

What fraction is this?

$\frac{3}{6}$

What have we added?



How can we use the bar models to help us add?

Shade 2 quarters with 1 colour. Shade 1 quarter with another colour. How many do we have?

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



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



Why do we need 2 bars this time?

How can we write our answer as a proper fraction?

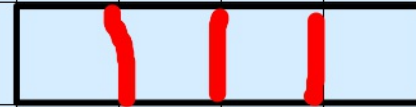
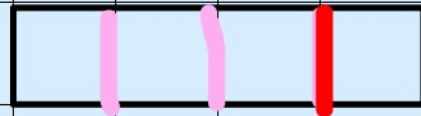
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$$\frac{2}{4} + \frac{1}{4}$$



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



Why do we need 2 bars this time?

How can we write our answer as a proper fraction?

How would we add 3 fractions?

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

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

Can I combine any fractions to make a whole?

How would you write this as a calculation?

Write the calculation to match this fraction model and calculate the answer.



Remember there are 3 different colour which show 3 different fractions.

Write the calculation to match this fraction model and calculate the answer.



$$\frac{1}{4} + \frac{3}{4} + \frac{2}{4} = \frac{6}{4} \text{ or } 1\frac{2}{4}$$

Explain the mistake that has been made.

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



Explain the mistake that has been made.

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

The answer should be $\frac{8}{10}$ not $\frac{6}{10}$. They have only added 2 of the fractions, instead of all 3.





TASK!

Mild

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

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

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

Spicy

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

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

$$\frac{1}{4} + \frac{5}{4} + \frac{11}{4}$$

HOT HOT HOT

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

$$\frac{2}{5} + \frac{4}{5} + \frac{1}{5}$$

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

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

Write the calculations to match these fraction models and calculate the answer.

a)



b)





TASK!

Mild

$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$$

Spicy

$$\frac{4}{5} + \frac{3}{5} + \frac{6}{5} = \frac{13}{5}$$

HOT HOT HOT

$$\frac{2}{3} + \frac{3}{3} + \frac{2}{3} + \frac{4}{5} + \frac{1}{5} = 1\frac{2}{5}$$

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

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

$$\frac{4}{8} + \frac{4}{8} + \frac{3}{8} + \frac{1}{2} + \frac{3}{2} = 1\frac{1}{2}$$

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

$$\frac{1}{4} + \frac{5}{4} + \frac{11}{4} = \frac{17}{4}$$

Write the calculations to match these fraction models and calculate the answer.



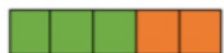


Mild

Use the models to add the fractions:



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



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



Choose your preferred model to add:

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

$$\frac{3}{7} + \frac{6}{7}$$

$$\frac{7}{9} + \frac{4}{9}$$

Spicy

Mo and Teddy are solving:

$$\frac{6}{13} + \frac{5}{13} + \frac{7}{13}$$

Mo



The answer is 1 and $\frac{5}{13}$

Teddy



The answer is $\frac{18}{13}$

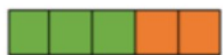
Who do you agree with?
Explain why.

Mild

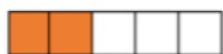
Use the models to add the fractions:



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



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



Choose your preferred model to add:

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

$$\frac{3}{7} + \frac{6}{7}$$

$$\frac{7}{9} + \frac{4}{9}$$

$$\frac{4}{7}$$

$$\frac{7}{5}$$

$$\frac{3}{5}$$

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

$$\frac{13}{9}$$

Spicy

Mo and Teddy are solving:

$$\frac{6}{13} + \frac{5}{13} + \frac{7}{13}$$

Mo



The answer is 1 and $\frac{5}{13}$

Teddy



The answer is $\frac{18}{13}$

Who do you agree with?
Explain why.

Both