Which is larger, $\frac{1}{3}$ or $\frac{2}{5}$?

Here are some number cards.



Use **two** of the cards to make a fraction which is **less than** $\frac{1}{2}$

$\frac{\square}{\square}$

I do

we do

you do

LO: to add fractions

you do

$\frac{9}{10} + \frac{2}{10}$

$\frac{3}{8} - \frac{2}{8}$

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

$\frac{2}{6} - \frac{1}{6}$

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

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

$\frac{3}{7} - \frac{2}{7}$

$\frac{10}{10} + \frac{2}{10}$

Where possible, give your answer as a mixed number.

$\frac{11}{10}$ $\frac{10}{10}$ $\frac{1}{10}$

$1\frac{1}{10}$

LO: to add fractions

we do

$\frac{9}{10} + \frac{2}{10}$	$1\frac{1}{10}$
$\frac{3}{8} - \frac{2}{8}$	$\frac{1}{8}$
$\frac{1}{4} + \frac{1}{4}$	$\frac{1}{2}$
$\frac{2}{6} - \frac{1}{6}$	$\frac{1}{6}$
$\frac{3}{4} + \frac{2}{4}$	$1\frac{1}{4}$
$\frac{4}{6} + \frac{1}{6}$	$\frac{5}{6}$
$\frac{3}{7} - \frac{2}{7}$	$\frac{1}{7}$
$\frac{10}{10} + \frac{2}{10}$	$1\frac{1}{5}$

Explain what made these fractions easy to add.

LO: to add fractions

I do

$\frac{2}{5} \times 2$ $\frac{1}{10}$

$\frac{2}{5} \times 2$

$\frac{4}{10} + \frac{1}{10} = \frac{5}{10}$ $\frac{1}{2}$

$^2/_5 + {}^1/_{10}$

What do I notice?

How would I add these fractions?

$^2/_3 + {}^1/_6$

What three steps do you need to complete?

$^1/_3 + {}^5/_6$

LO: to add fractions

we do

$$\frac{5}{7} + \frac{6}{9} =$$

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

LO: to add fractions

you do

$\frac{4}{8} + \frac{5}{10}$ 1

$\frac{2}{3} + \frac{5}{8}$ $1\frac{7}{24}$

$\frac{4}{5} + \frac{2}{3}$ $1\frac{7}{15}$

$\frac{2}{5} + \frac{1}{10}$

$1\frac{6}{12} + 1\frac{6}{12}$

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

$2\frac{8}{11} + 1\frac{6}{14}$

$1\frac{8}{10} + 3\frac{3}{6}$

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

LO: to add fractions

you do

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

$\frac{5}{7} + \frac{3}{21}$

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

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

LO: to add fractions

I do

Q1) $1\frac{3}{5} + 3\frac{2}{3}$

Q2) $1\frac{1}{3} + 3\frac{3}{4}$

Q3) $3\frac{2}{5} + 2\frac{3}{4}$

What happens when it is a mixed number?

Are the three steps the same?

LO: to add fractions

we do

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

$3\frac{1}{6} + 1\frac{3}{4} =$

LO: to add fractions

you do

$1\frac{6}{12} + 1\frac{6}{12}$ 3

$2\frac{8}{11} + 1\frac{6}{14}$ $4\frac{12}{77}$

$1\frac{8}{10} + 3\frac{3}{6}$ $5\frac{3}{10}$

LO: to add fractions

we do

Peter uses quick fix glue to hold a bamboo rod. One piece of the rod measures $1\frac{1}{5}$ meters and another piece measures $2\frac{2}{3}$ meters. What is the total length of bamboo rod after it has been glued together?

Answer: _____

Discuss the steps

LO: to add fractions

you do

Complete the word problems in your books.

Remember: make the fractions improper, then equivalent, add the numerators, simplify/mixed number.

1. Margo ate $\frac{2}{3}$ of a pizza and Ella ate $\frac{4}{9}$ of a pizza. How much did they eat altogether?
2. Sadiq fills $\frac{3}{4}$ of a bucket with water and Matthew fills $\frac{3}{16}$ of a bucket with water. How much water have they got?
3. Reese ran $\frac{2}{3}$ of a mile on Wednesday and $\frac{4}{12}$ of a mile on Friday. How far had he run that week?
4. Carl eats $\frac{3}{5}$ of a bunch of grapes and David eats $\frac{11}{20}$ of his bunch of grapes. What fraction of the grapes have they eaten?
5. A recipe requires $\frac{3}{4}$ of a cup of self raising flour and $\frac{7}{12}$ of a cup of plain flour. How much flour is needed altogether?
6. Alexa has to read two books for school. She reads $\frac{5}{6}$ of the first book on Monday and $\frac{21}{24}$ of the second book on Tuesday. What fraction of these two books has Alison read?

1. Year 5 recycled $2\frac{3}{4}$ boxes of paper in a week and Year 6 recycled $3\frac{7}{12}$ boxes of paper in a week. What is the total amount they recycled?
2. On Monday, John spent $1\frac{3}{4}$ hours studying and on Tuesday he spent another $1\frac{3}{5}$ hours studying. What fraction did he spend studying on Monday and Tuesday?
3. Emily walked $2\frac{2}{3}$ of a kilometre in the morning and $1\frac{3}{4}$ of a kilometre in the afternoon. What was the total distance she walked that day?
4. George bought $3\frac{2}{5}$ boxes of strawberries and $2\frac{1}{2}$ boxes of raspberries. How many boxes of fruit in total did he buy?
5. On Monday, Toby ran $4\frac{5}{6}$ laps of a running track and on Tuesday he ran $5\frac{3}{4}$ laps of a running track. What was the total distance he ran over the two days?
6. A school consumed $5\frac{3}{4}$ loaves of bread in one week and $5\frac{6}{8}$ loaves of bread during week two. What was the total amount of bread they ate?

Pink highlighter at the ready....let's mark.

we do

1. Margo ate $\frac{2}{3}$ of a pizza and Ella ate $\frac{4}{9}$ of a pizza. How much did they eat altogether? $1\frac{1}{9}$

2. Sadiq fills $\frac{3}{4}$ of a bucket with water and Matthew fills $\frac{3}{16}$ of a bucket with water. How much water have they got? $\frac{15}{16}$

3. Reese ran $\frac{2}{3}$ of a mile on Wednesday and $\frac{4}{12}$ of a mile on Friday. How far had he run that week? $\frac{12}{12}$ or 1 whole

4. Carl eats $\frac{3}{5}$ of a bunch of grapes and David eats $\frac{11}{20}$ of his bunch of grapes. What fraction of the grapes have they eaten? $1\frac{3}{20}$

5. A recipe requires $\frac{3}{4}$ of a cup of self raising flour and $\frac{7}{12}$ of a cup of plain flour. How much flour is needed altogether? $1\frac{4}{12}$ or $1\frac{1}{3}$

6. Alexa has to read two books for school. She reads $\frac{5}{6}$ of the first book on Monday and $\frac{21}{24}$ of the second book on Tuesday. What fraction of these two books has Alison read? $1\frac{17}{24}$

Pink highlighter at the ready....let's mark.

we do

1. Year 5 recycled $2\frac{3}{4}$ boxes of paper in a week and Year 6 recycled $3\frac{7}{12}$ boxes of paper in a week. What is the total amount they recycled? $6\frac{1}{3}$

2. On Monday, John spent $1\frac{3}{4}$ hours studying and on Tuesday he spent another $1\frac{3}{5}$ hours studying. What fraction did he spend studying on Monday and Tuesday? $3\frac{7}{20}$

3. Emily walked $2\frac{2}{3}$ of a kilometre in the morning and $1\frac{3}{4}$ of a kilometre in the afternoon. What was the total distance she walked that day? $4\frac{5}{12}$

4. George bought $3\frac{2}{5}$ boxes of strawberries and $2\frac{1}{2}$ boxes of raspberries. How many boxes of fruit in total did he buy? $5\frac{9}{10}$

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5. On Monday, Toby ran $4\frac{5}{6}$ laps of a running track and on Tuesday he ran $5\frac{3}{4}$ laps of a running track. What was the total distance he ran over the two days? $10\frac{7}{12}$

6. A school consumed $5\frac{3}{4}$ loaves of bread in one week and $5\frac{6}{8}$ loaves of bread during week two. What was the total amount of bread they ate? $12\frac{1}{2}$

LO: to add fractions

I do

Q2.

$\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{10}$ $\frac{1}{20}$ $\frac{1}{40}$

Use three of these fraction cards to complete the sum below.

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

LO: to add fractions

we do

Q3. (a) Write numbers in the boxes to make this fraction calculation correct.

$$\frac{1}{\square} + \frac{\square}{5} = \frac{7}{10}$$

(b) Now write two **different** numbers to make the calculation correct.

$$\frac{1}{\square} + \frac{\square}{5} = \frac{7}{10}$$

LO: to add fractions

Complete the testbase questions in your book.

you do

Q1. Write the missing fraction.

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

1 mark

Q2.

$\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{10}$ $\frac{1}{20}$ $\frac{1}{40}$

Use three of these fraction cards to complete the sum below.

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

1 mark

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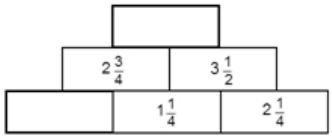
1 mark

(b) Now write two **different** numbers to make the calculation correct.

$\frac{1}{\square} + \frac{\square}{5} = \frac{7}{10}$

1 mark

Q4. In this diagram, the number in each box is the **sum** of the two numbers below it. Write the missing numbers.



Pink highlighter at the ready....let's mark.

we do

Q1. Write the missing fraction.

$\frac{1}{3} + \frac{1}{4} + \boxed{\frac{5}{12}} = 1$

Q2.

$\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{10}$ $\frac{1}{20}$ $\frac{1}{40}$

Use three of these fraction cards to complete the sum below.

$\boxed{\frac{1}{4}} + \boxed{\frac{1}{5}} + \boxed{\frac{1}{20}} = \frac{1}{2}$

Pink highligher at the ready....let's mark.

we do

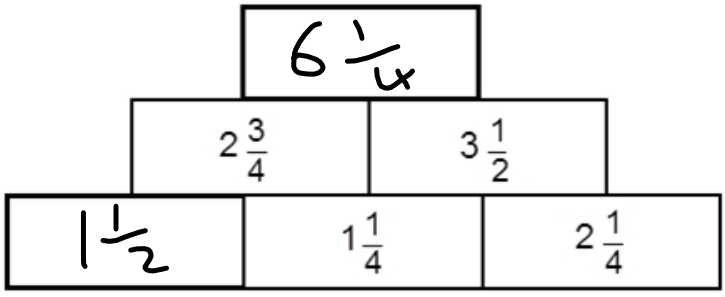
Q3. (a) Write numbers in the boxes to make this fraction calculation correct.

$$\frac{1}{\boxed{2}} + \frac{\boxed{1}}{5} = \frac{7}{10}$$

(b) Now write two **different** numbers to make the calculation correct.

$$\frac{1}{\boxed{10}} + \frac{\boxed{3}}{5} = \frac{7}{10}$$

Q4. In this diagram, the number in each box is the **sum** of the two numbers below it. Write the missing numbers.



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