

RECALL – SUBTRACTION FLUENCY (WITHIN 20)

Pictorial support

$18 - 10 = ?$
Answer:

$16 - 3 =$
Answer:

$11 - 3 = ?$
Answer:

$18 - 7 = ?$
Answer:

No bridging back

$$19 - 3 =$$

$$17 - 6 =$$

$$14 - 3 =$$

$$20 - 10 =$$

$$19 - 2 =$$

$$18 - 3 =$$

$$18 - 13 =$$

$$12 - 11 =$$

Bridging back

$$20 - 9 =$$

$$14 - 6 =$$

$$13 - 6 =$$

$$16 - 8 =$$

$$17 - 8 =$$

$$13 - 8 =$$

$$17 - 13 =$$

$$14 - 9 =$$

Missing number

$$19 - \triangle = 11$$

$$18 - \triangle = 14$$

$$16 - \triangle = 10$$

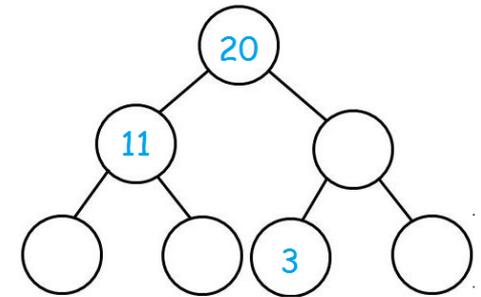
$$18 - \triangle = 15$$

$$20 - \triangle = 7$$

$$16 - \triangle = 12$$

$$15 - \triangle = 8$$

$$13 - \triangle = 5$$



3 BEFORE ME



Word problem

Sixteen ice creams were waiting to be eaten. Four melted in the sun. Three tipped over. How many can still be eaten?

Write the calculation.

Show your working out on the ten frame boards.





LO: I CAN SUBTRACT FRACTIONS WITH THE SAME DENOMINATOR

Page

Success Criteria

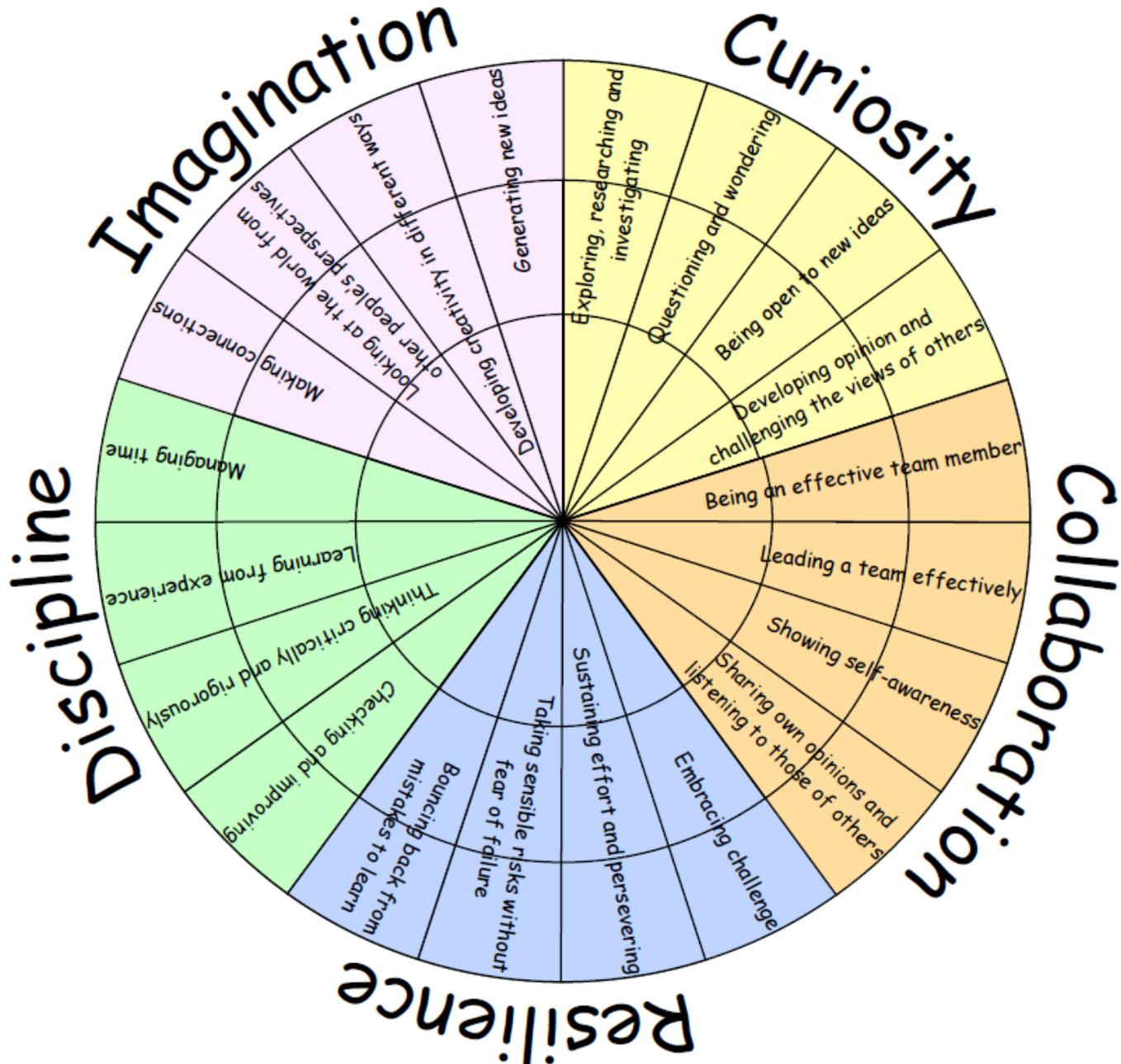
Some will even solve missing number statements.

Some will subtract fractions (using mental calculations or number line).

Most will subtract two fractions (with pictorial support).

All will subtract simple fractions (with adult support).

LEARNING HABITS?



GUIDED PRACTICE

Riya and Barry are in a space shuttle heading back to earth.
The journey home will use $\frac{3}{8}$ of a tank of fuel.



How much fuel do they have now?
How much fuel will they have left after their journey?

IF the tank was full before the journey home, what would the answer be?

3 BEFORE ME

You subtract the numerators, not denominators.



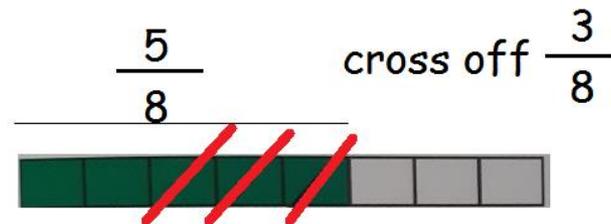
The fuel tank meter has been split into 8 equal parts. There are five parts coloured. The fuel tank is $\frac{5}{8}$ full.

The journey home will use $\frac{3}{8}$ of fuel.



5 eighths **subtract** 3 eighths equals 2 eighths.

$$\frac{5}{8} - \frac{3}{8} = \frac{2}{8}$$



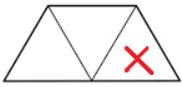
If the tank was full, there could be eight eighths.

8 eighths **subtract** 3 eighths equals 5 eighths.

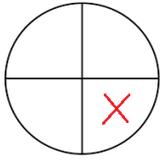
$$\frac{8}{8} - \frac{3}{8} = \frac{5}{8}$$

INTELLIGENT PRACTICE

Take 1 part away from the whole 



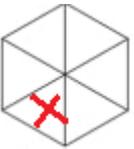
$$\frac{3}{3} - \frac{1}{3} = \frac{\square}{\square}$$



$$\frac{4}{4} - \frac{1}{4} = \frac{\square}{\square}$$



$$\frac{5}{5} - \frac{1}{5} = \frac{\square}{\square}$$

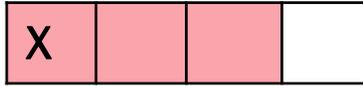


$$\frac{6}{6} - \frac{1}{6} = \frac{\square}{\square}$$

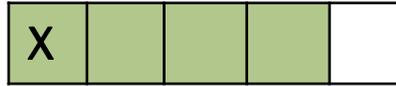


$$\frac{7}{7} - \frac{1}{7} = \frac{\square}{\square}$$

Take 1 part away from a part. 



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



$$\frac{4}{5} - \frac{1}{5} = \frac{\square}{\square}$$



$$\frac{5}{6} - \frac{1}{6} = \frac{\square}{\square}$$

Take more than 1 part away from a part. 



$$\frac{5}{7} - \frac{3}{7} = \frac{\square}{\square}$$



$$\frac{7}{8} - \frac{6}{8} = \frac{\square}{\square}$$



$$\frac{7}{10} - \frac{5}{10} = \frac{\square}{\square}$$

3 BEFORE ME

You subtract the numerators, not denominators.



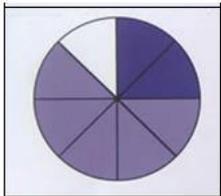
Create your own fraction bar model with a colour and crosses. Write the subtraction number sentence for your fractions.



DIVE DEEPER 1

1 Complete these subtractions.

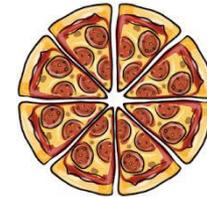
$$\frac{7}{8} - \frac{5}{8} = \frac{\square}{\square}$$



5

Max has 1 whole pizza. It has been cut into 8 eighths. He east 5 eighths. How much is left?
Write the calculation.

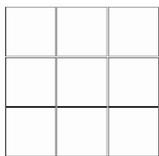
$$\frac{8}{8} - \frac{\quad}{\quad} = \frac{\square}{\square}$$



2

First, colour in 6 ninths.
What is 6 ninths subtract 2 ninths?

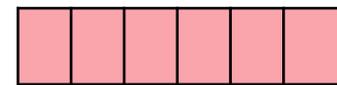
$$\frac{6}{9} - \frac{2}{9} = \frac{\square}{\square}$$



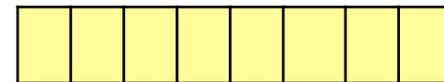
6

Work out the missing fraction in this calculation.

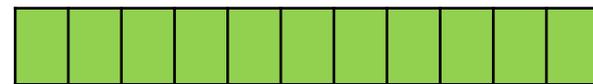
$$\frac{5}{6} - \frac{\quad}{\quad} = \frac{1}{6}$$



$$\frac{7}{8} - \frac{\quad}{\quad} = \frac{5}{8}$$



$$\frac{7}{11} - \frac{\quad}{\quad} = \frac{2}{11}$$



3

Complete the subtractions.

$$\frac{3}{8} - \frac{2}{8} = \frac{\square}{\square} \quad \frac{11}{12} - \frac{5}{12} = \frac{\square}{\square}$$

4

Here is one whole chocolate bar.

It shows $\frac{12}{12}$.



What is 1 whole (12 twelfths) take away 4 twelfths?

$$\frac{12}{12} - \frac{4}{12} = \frac{\square}{\square}$$

7

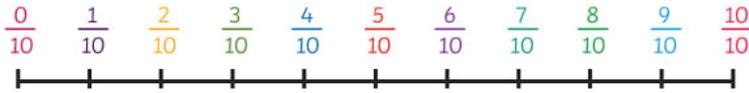
Complete the calculation. Can you find more than one way of solving it?

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{2}{8}$$



DIVE DEEPER 2

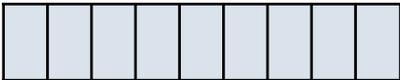
1 Complete the calculation shown on the number line.



$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

2 1 means 1 whole. Complete the missing fractions. Use the bar model to help you.

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


$$1 - \frac{\square}{\square} = \frac{1}{9}$$


3 Find the difference between 2 sevenths and 6 sevenths.

Prove it on a number line or bar model.

4

This number line counts in tenths.



The difference between two fractions is 3 tenths.

For example - The difference between 4 tenths and 7 tenths is 3 tenths.

How many other fractions have a difference of 3 tenths?

.....

.....

.....

.....

5

Read the symbols carefully then solve.



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

$$\frac{5}{9} + \frac{\square}{9} - \frac{2}{9} = \frac{4}{9}$$

$$\frac{7}{12} - \frac{1}{12} + \frac{\square}{\square} = \frac{11}{12}$$