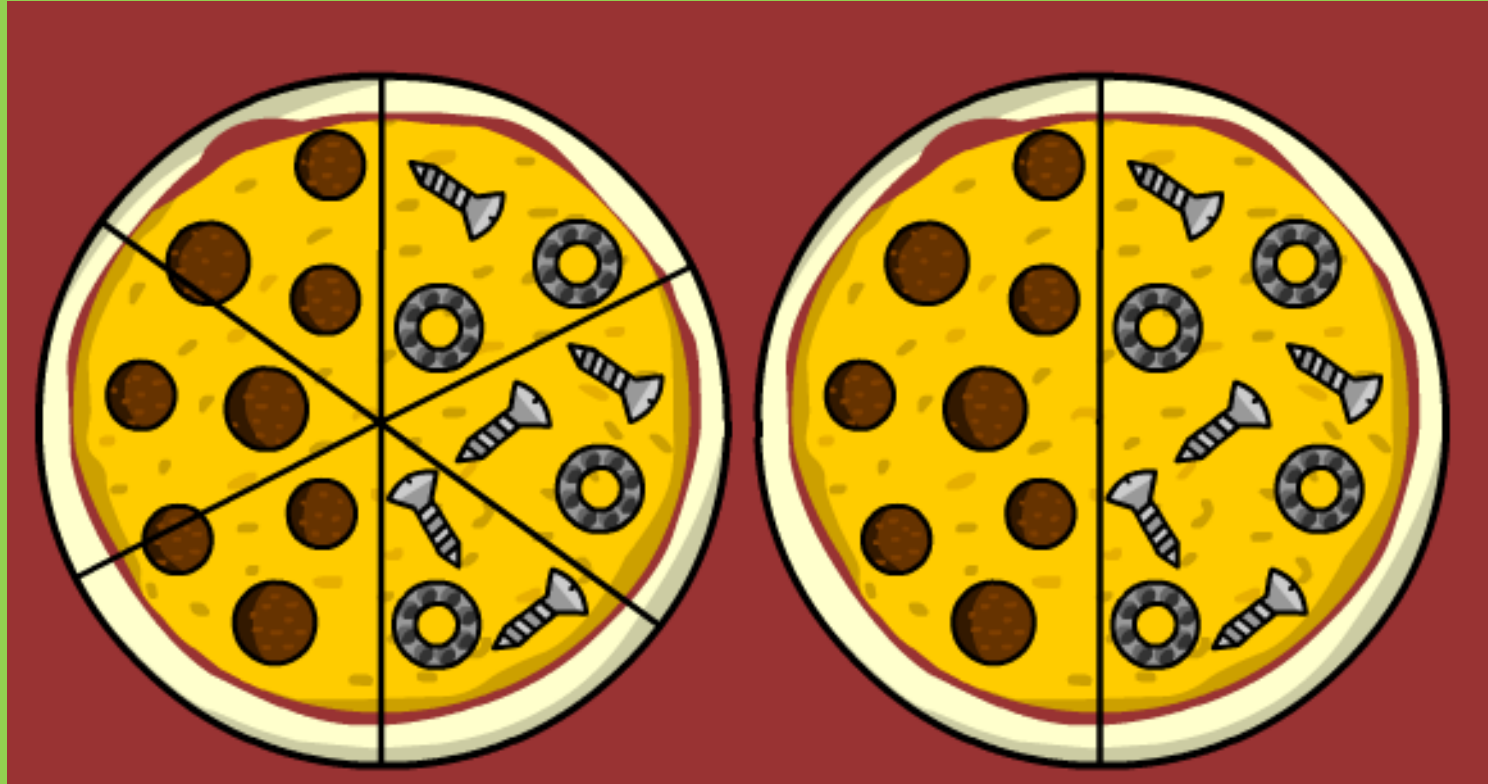


RECALL



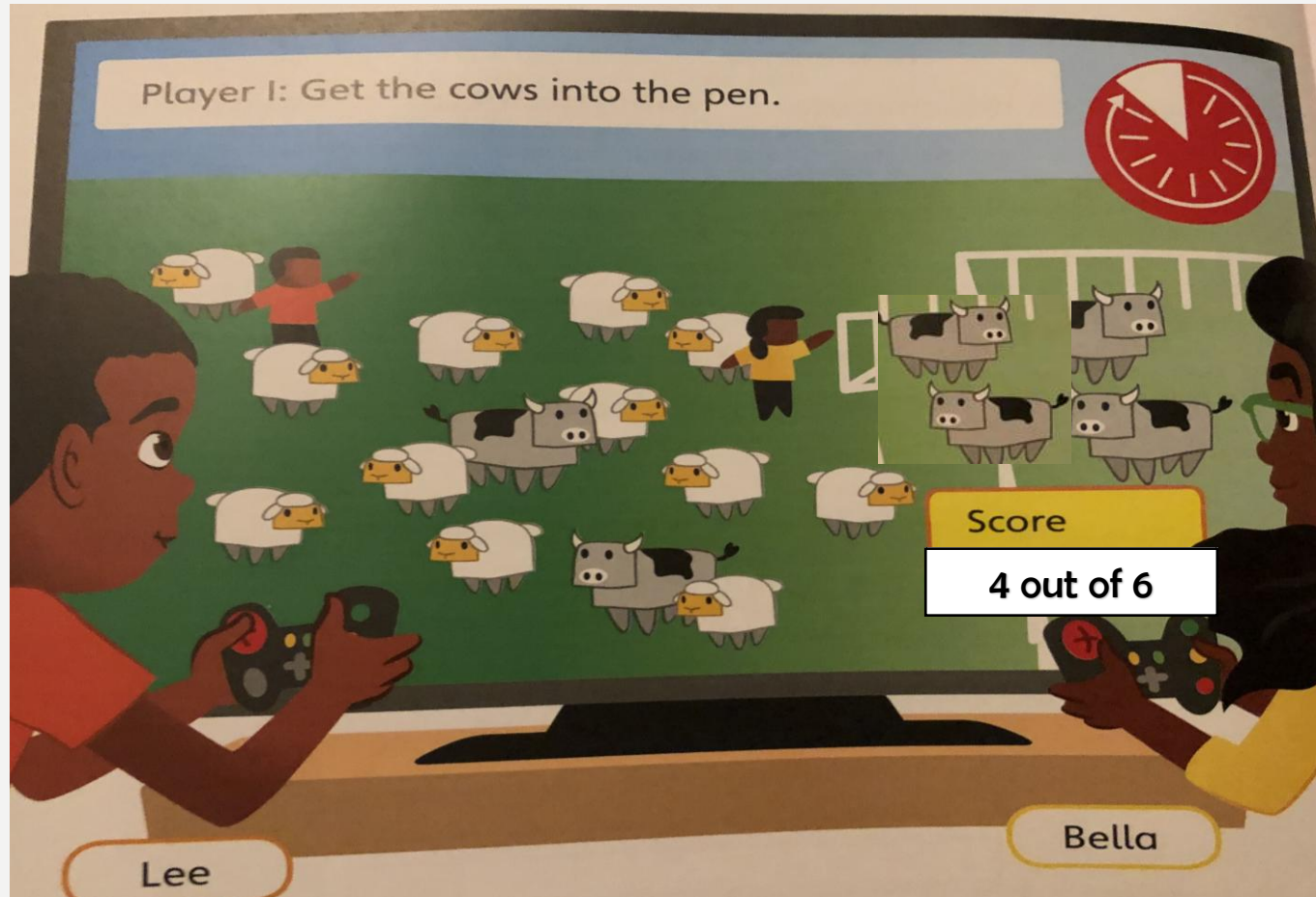
Discuss with your TP what you see here.
Can you **explain and extend** using maths?

L.O. USE COMMON FACTORS TO SIMPLIFY FRACTIONS.

- **SOME WILL EVEN:** Solve problems involving simplifying and equivalent fractions.
- **SOME WILL:** Give fractions in their simplest form.
- **MOST WILL:** Find equivalent fractions.
- **ALL WILL:** Can identify common factors and multiples.



GUIDED PRACTICE - MY TURN



1 a) Bella gets 4 cows into the pen before the timer runs out.

What is her score? Give your answer as a fraction in its simplest form.

b) Lee gets 9 of the 18 sheep into the pen. What is his score? Give your answer as a fraction in its simplest form.

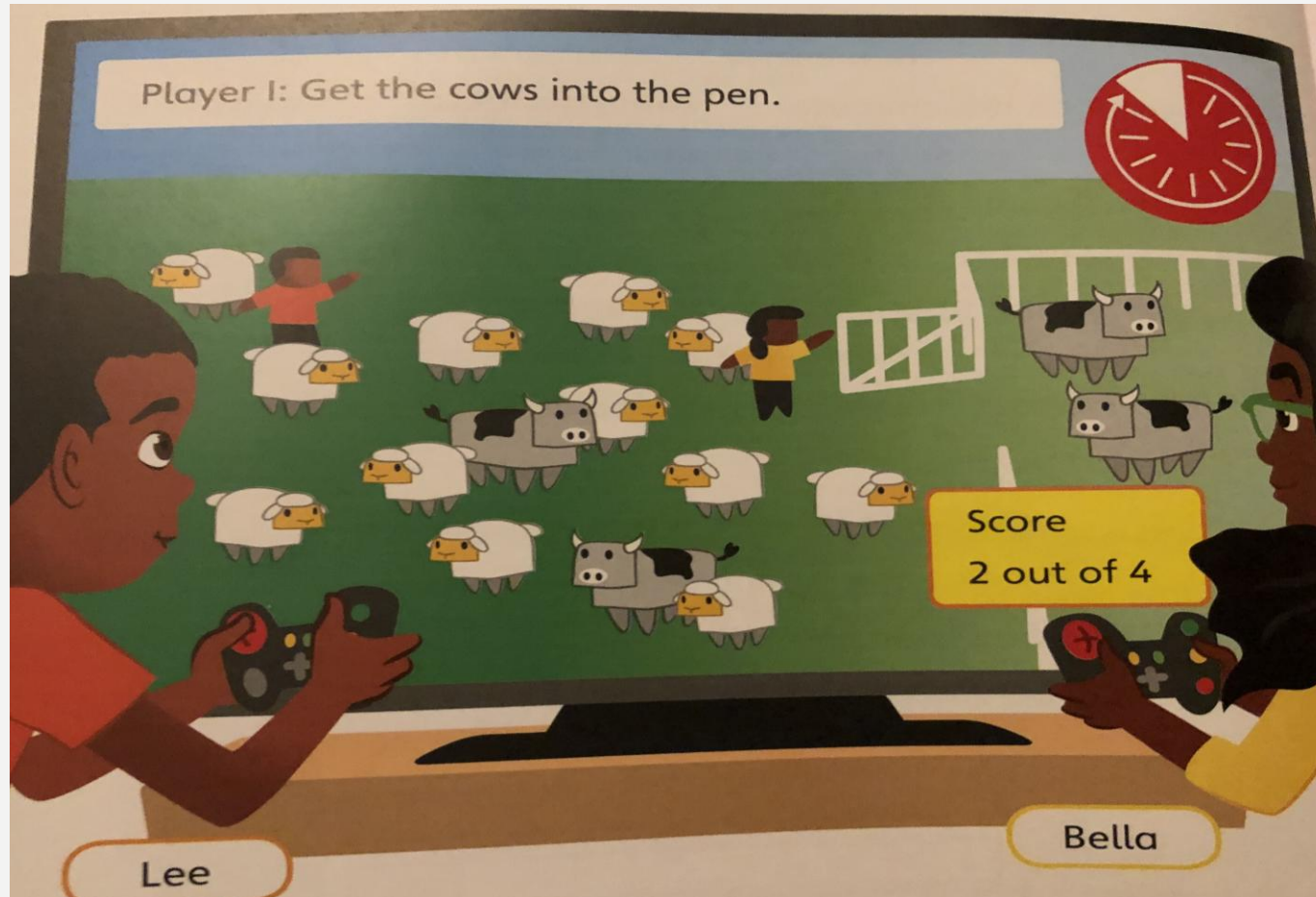
help

Use your multiplication square to help you identify common multiples/factors.



What fraction of the farm animals shown did Lee and Bella put into the pen? Can this be simplified? Why/Why not?

GUIDED PRACTICE - YOUR TURN



1 a) Bella gets 2 cows into the pen before the timer runs out.

What is her score? Give your answer as a fraction in its simplest form.

b) Lee gets 9 of the 12 sheep into the pen. What is his score? Give your answer as a fraction in its simplest form.

help

Use your multiplication square to help you identify common multiples/factors.



What fraction of the farm animals shown did Lee and Bella put into the pen? Can this be simplified? Why/Why not?



Find the common factors...

14 and 24

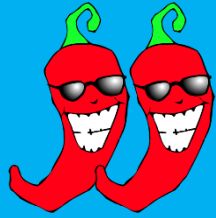
6 and 15

20 and 45

12 and 16

72 and 9

24 and 4



Simplify these fractions.

a) $\frac{14}{24} = \frac{\boxed{}}{\boxed{}}$

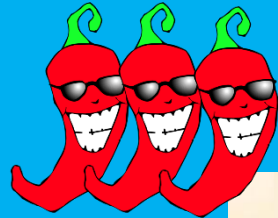
b) $\frac{6}{15} = \frac{\boxed{}}{\boxed{}}$

c) $\frac{20}{45} = \frac{\boxed{}}{\boxed{}}$

d) $\frac{12}{16} = \frac{\boxed{}}{\boxed{}}$

e) $\frac{72}{\boxed{}} = \frac{9}{10}$

f) $\frac{\boxed{}}{24} = \frac{3}{4}$



Write in the missing numbers.

$$\frac{90}{120} = \frac{\boxed{}}{60} = \frac{15}{\boxed{}} = \frac{\boxed{}}{4}$$



56

81

63

84

150

600

81

90

Can these be simplified?



Find the common factors...

14 and 24 **2,**

6 and 15 **3**

20 and 45 **5**

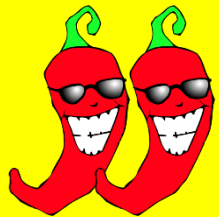
12 and 16 **2, 4**

72 and 9 **3, 9**

24 and 4 **2, 4**



Can these
be
simplified?



Simplify these fractions.

a) $\frac{14}{24} = \frac{\boxed{7}}{\boxed{12}}$

c) $\frac{20}{45} = \frac{\boxed{4}}{\boxed{9}}$

e) $\frac{72}{\boxed{80}} = \frac{9}{10}$

b) $\frac{6}{15} = \frac{\boxed{2}}{\boxed{5}}$

d) $\frac{12}{16} = \frac{\boxed{3}}{\boxed{4}}$

f) $\frac{\boxed{18}}{24} = \frac{3}{4}$



Write in the missing numbers.

$\frac{90}{120} = \frac{\boxed{45}}{60} = \frac{15}{\boxed{20}} = \frac{\boxed{3}}{4}$

$\frac{56}{81}$

$\frac{81}{600}$

$\frac{150}{600}$

$\frac{600}{600}$

1
4

$\frac{63}{84}$

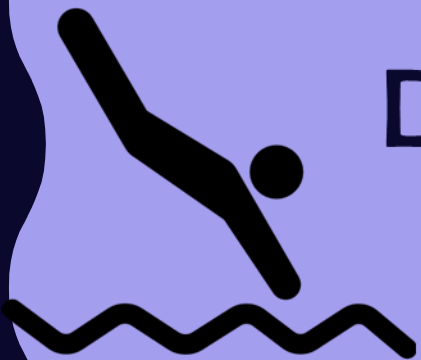
$\frac{84}{90}$

$\frac{81}{90}$

$\frac{90}{90}$

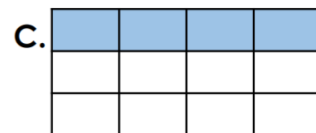
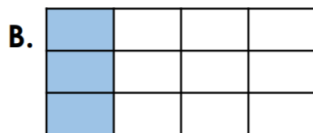
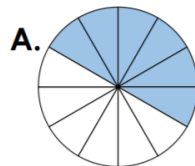
3
14

9
10

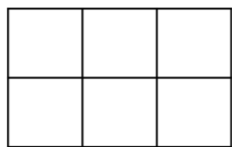
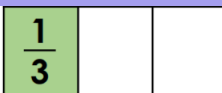


DIVE DEEPER 1

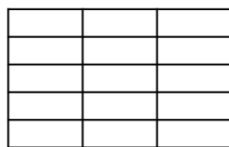
1. Which image will simplify to the fraction below?



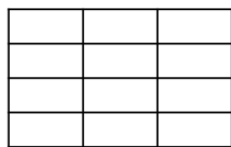
2. Complete and colour the fractions below so they simplify to:



6

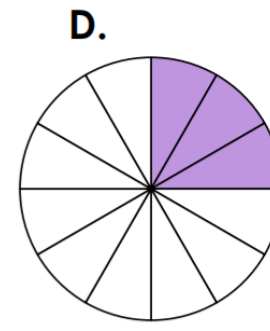
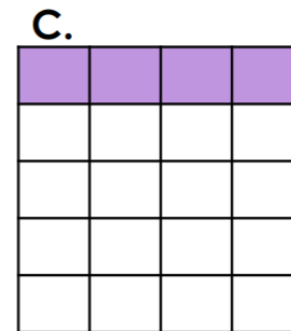
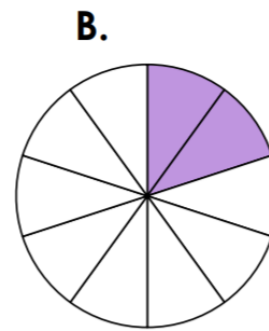
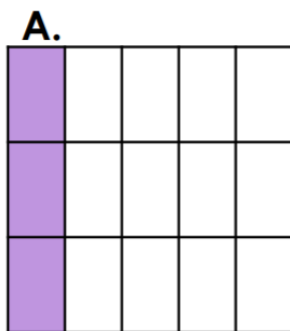


15



12

3. Spot the odd one out.



Complete these fractions to make each equivalent to $\frac{3}{5}$

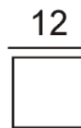
4



10

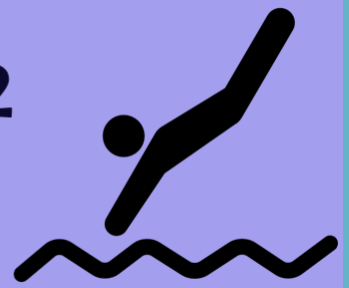


15



12

DIVE DEEPER 2



5)

Write the two missing values to make these equivalent fractions correct.

$$\frac{\boxed{}}{30} = \frac{10}{12} = \frac{30}{\boxed{}}$$

7. When written as fractions, which of the statements will simplify to the fraction below?

$$\frac{4}{5}$$

A. 32 girls in a class of 40 children.

B. 60 daffodils out of 75 wild flowers.

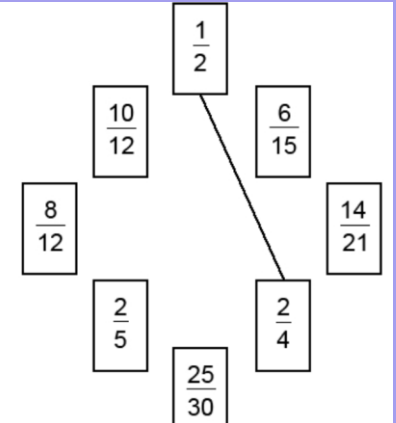
C. 45 correct spellings out of 50.

D. 80 women in a room of 100 people.

6)

Join pairs of equivalent fractions.

One is done for you.



8. Complete the fractions below so they simplify to $\frac{5}{8}$.

$$\frac{25}{\boxed{}}$$

$$\frac{\boxed{}}{24}$$

$$\frac{45}{\boxed{}}$$

$$\frac{\boxed{}}{56}$$



Odd one out...

A. $\frac{28}{100}$

B. $\frac{21}{75}$

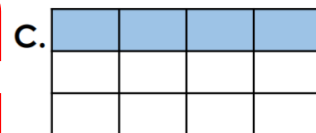
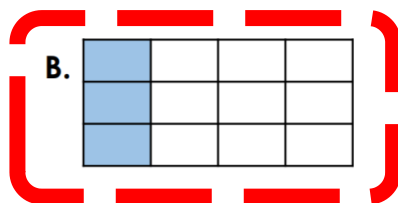
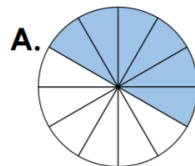
C. $\frac{42}{75}$

D. $\frac{14}{50}$

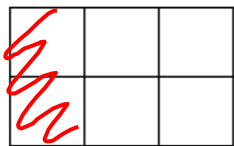
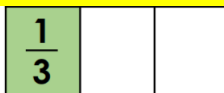


DIVE DEEPER 1

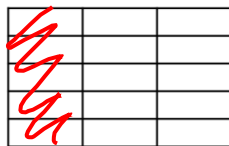
1. Which image will simplify to the fraction below?



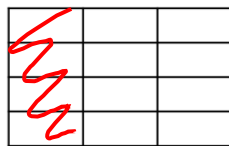
2. Complete and colour the fractions below so they simplify to:



$\frac{\boxed{2}}{6}$

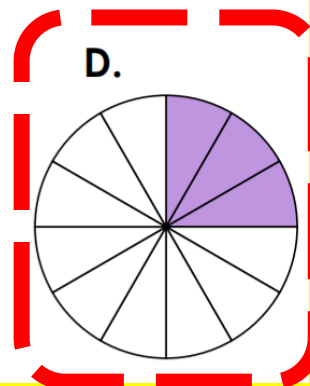
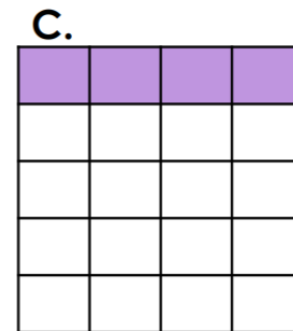
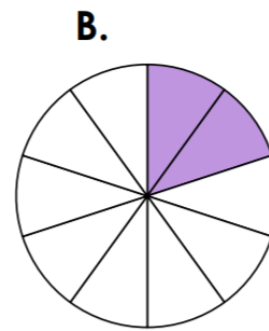
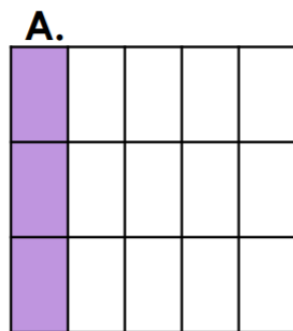


$\frac{\boxed{5}}{15}$



$\frac{\boxed{4}}{12}$

3. Spot the odd one out.



Complete these fractions to make each equivalent to $\frac{3}{5}$

4

$\frac{\boxed{6}}{10}$

$\frac{\boxed{9}}{15}$

$\frac{12}{\boxed{20}}$



DIVE DEEPER 2



5)

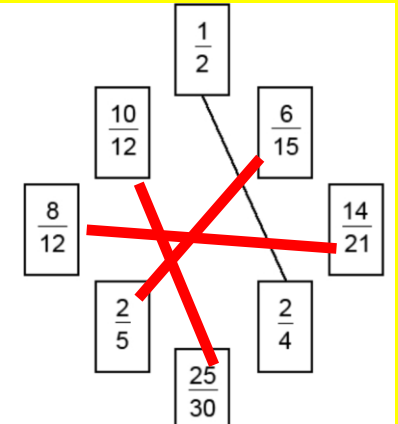
Write the two missing values to make these equivalent fractions correct.

$$\frac{\boxed{25}}{30} = \frac{10}{12} = \frac{30}{\boxed{36}}$$

Join pairs of equivalent fractions.

One is done for you.

6)



7. When written as fractions, which of the statements will simplify to the fraction below?

$\frac{4}{5}$

A. 32 girls in a class of 40 children.

B. 60 daffodils out of 75 wild flowers.

C. 45 correct spellings out of 50.

D. 80 women in a room of 100 people.

8. Complete the fractions below so they simplify to $\frac{5}{8}$.

$\frac{25}{\boxed{36}}$

$\frac{\boxed{15}}{24}$

$\frac{45}{\boxed{72}}$

$\frac{\boxed{35}}{56}$



Odd one out...

A. $\frac{28}{100}$

B. $\frac{21}{75}$

C. $\frac{42}{75}$

D. $\frac{14}{50}$



CHALLENGE

14

Here are some digit cards.

[New]

2 3 4 5 6 8 9

Use **four** of the cards to complete these equivalent fractions.

Each fraction is less than one.

$$\frac{\boxed{}}{\boxed{3}} = \frac{\boxed{6}}{\boxed{}}$$

$$\frac{\boxed{6}}{\boxed{}} = \frac{\boxed{}}{\boxed{4}}$$

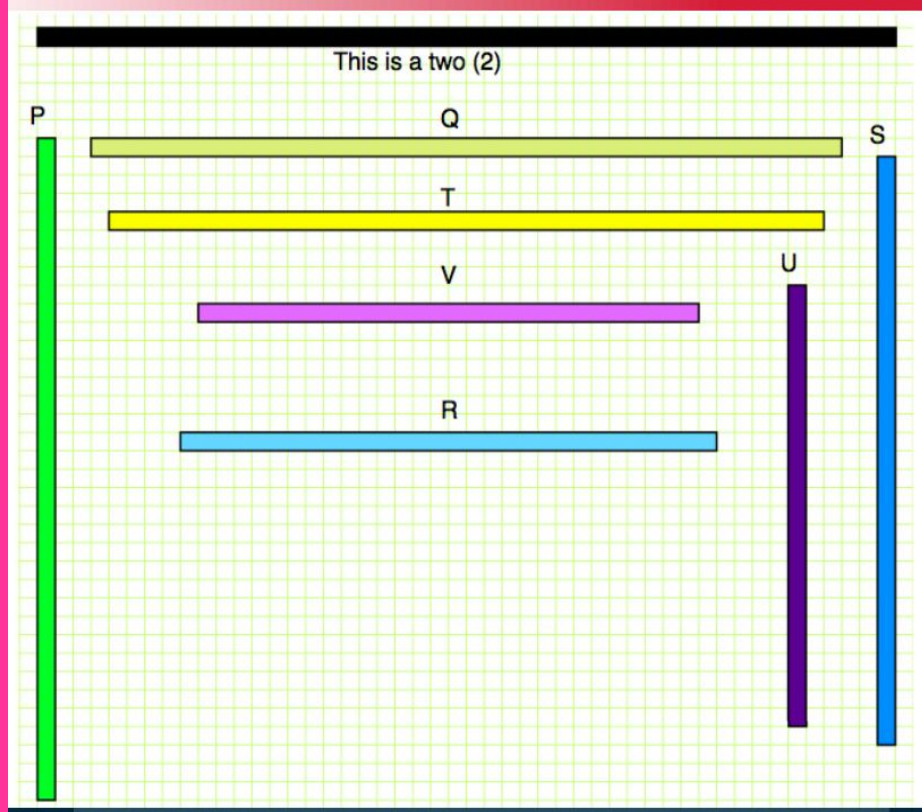
Use the same digit cards for these fractions...

$$\frac{\boxed{}}{\boxed{8}} = \frac{\boxed{3}}{\boxed{}}$$

$$\frac{\boxed{2}}{\boxed{}} = \frac{\boxed{}}{\boxed{9}}$$

More Fraction Bars

Can you order these bars proving you are right with fractions?



For example, look at Bar S below:



Drawing lines helps us measure it against the black bar:



What fraction of the black bar is Bar S?

Go through each of the other coloured bars and compare them to the black bar.
What fraction of 2 is each bar?

Write down your ideas for each bar. For example, you could write:

Bar S is two thirds of the black bar.

or

Bar S represents $\frac{2}{3}$ of 2.

or

Bar S is $1\frac{1}{3}$.

CHALLENGE