

Adding and Subtracting Fractions

1)

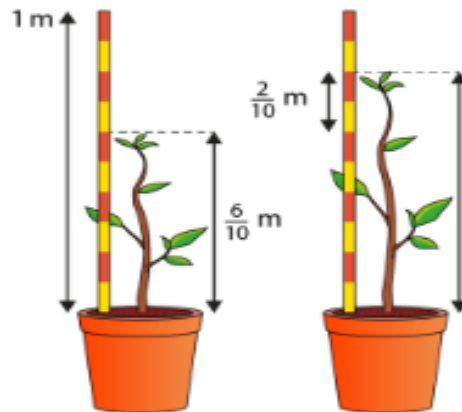
We grow a plant in a pot.

Week 1 the plant is $\frac{6}{10}$ of a metre.

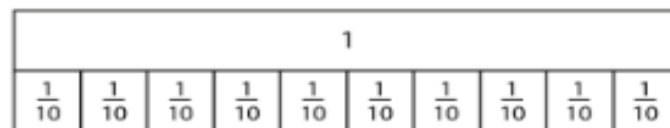
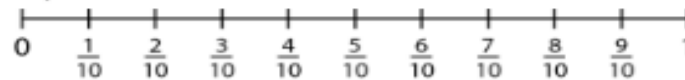
Week 2 the plant has grown $\frac{2}{10}$ of a metre.

How tall is it now?

$$\frac{6}{10} + \frac{2}{10} = \underline{\hspace{2cm}}$$



Representations:



2)

True or False?

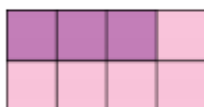
a) $\frac{1}{2} + \frac{1}{2} = \frac{2}{4}$



b) $\frac{2}{9} + \frac{6}{9} = \frac{8}{18}$



c) $\frac{3}{8} + \frac{5}{8} = 1$



d) $\frac{1}{11} + \frac{3}{11} + \frac{5}{11} = \frac{9}{11}$



How do you know?

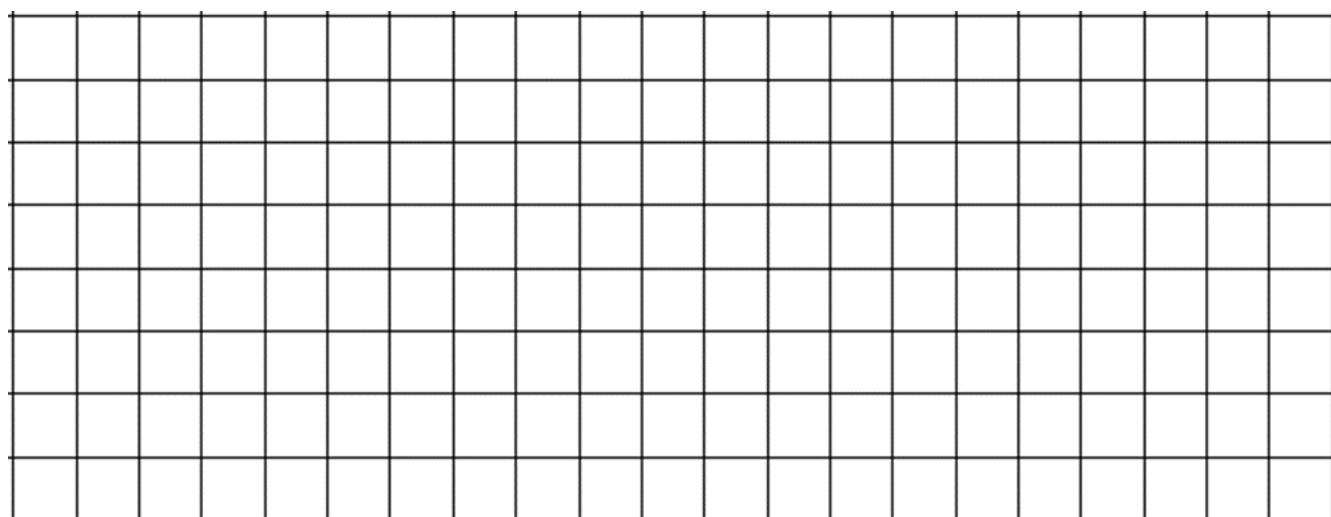
5)

This is the answer.



What fractions could have been added together to get this answer?

Find three combinations.

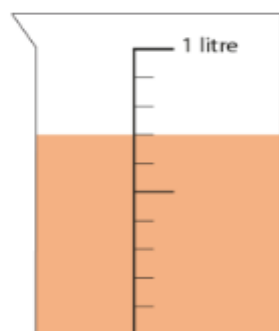


6)

Sofia had a jug with $\frac{7}{10}$ litres of juice.

She drank $\frac{3}{10}$ litres.

How much does she have left?



Prove it.

7)

Fill in the missing numbers from these problems:

$$\frac{4}{11} + \frac{\square}{\square} = \frac{10}{11}$$

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

$$\frac{10}{11} - \frac{\square}{\square} = \frac{4}{11}$$

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

$$\frac{15}{16} = \frac{\square}{\square} + \frac{7}{16}$$

$$\frac{\square}{\square} + \frac{9}{25} = \frac{23}{25}$$

$$\frac{15}{16} - \frac{\square}{\square} = \frac{7}{16}$$

$$\frac{23}{25} - \frac{\square}{\square} = \frac{9}{25}$$

Create some of your own fraction addition and subtractions in your Unexpected Adventure Trail and use the STEM sentences to explain them.

8)

Challenge:

Find the fraction to complete the addition calculation:

A.

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

B.

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

C.

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

D.

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

Show how you found the common denominator, and added the two fractions to find the answer.

[illegible]