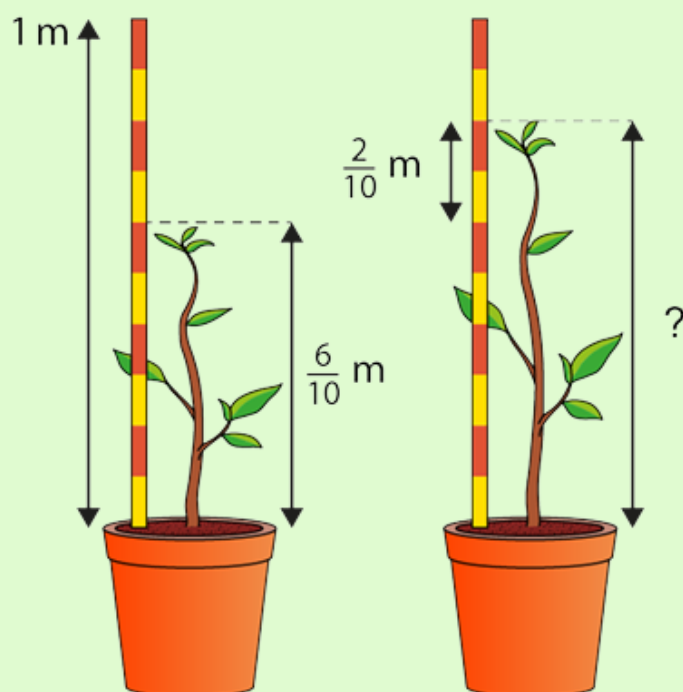




Problem Solving

The plant is six-tenths of a metre tall.
It then grows another two-tenths of a metre. How tall
is it now?

Consider how you would represent it.



Number line



Bar model



Monday 09.05.22

MPI: Adding fractions with the same denominator.

Fill in the missing numbers:

$$\frac{5}{9} + \frac{1}{9} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{4}{9} + \frac{5}{9} = \frac{\boxed{}}{\boxed{}}$$

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

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

$$\frac{5}{14} + \frac{7}{14} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{13}{47} + \frac{23}{47} = \frac{\boxed{}}{\boxed{}}$$

Who is correct? Explain why.

- *'Diego says that:'*

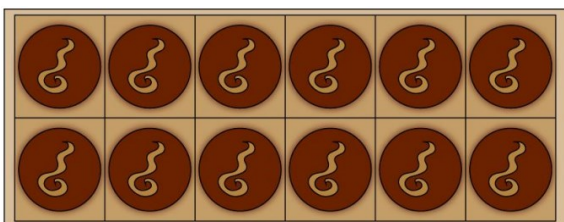
$$\frac{3}{12} + \frac{5}{12} = \frac{8}{12}$$

- *'Mark says that:'*

$$\frac{3}{12} + \frac{5}{12} = \frac{8}{24}$$

I ate $\frac{1}{6}$ of the chocolates and gave $\frac{3}{6}$ of them to my family.

What fraction has been eaten?



Monday 09.05.22

MPI: Adding fractions with the same denominator.

CHALLENGE

1. What is the largest
used to complete this

$$\frac{11}{20} + \frac{\square}{20} < \frac{17}{20}$$

possible numerator that can be
comparison statement?

2. How many different ways can you complete this equation?

$$\frac{\square}{9} + \frac{\square}{9} = \frac{1}{9} + \frac{2}{9} + \frac{3}{9} + \frac{2}{9} + \frac{1}{9}$$

Monday 09.05.22

MPI: Adding fractions with the same denominator.

CHALLENGE

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$$\frac{\square}{9} + \frac{\square}{9} = \frac{1}{9} + \frac{2}{9} + \frac{3}{9} + \frac{2}{9} + \frac{1}{9}$$

MPI: Subtracting fractions with the same denominator.

Fill in the missing numbers:

$$\frac{6}{8} - \frac{3}{8} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{6}{8} - \frac{2}{8} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{14}{15} - \frac{3}{15} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{9}{11} - \frac{6}{11} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{8}{14} - \frac{8}{14} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{9}{10} - 0 = \frac{\boxed{}}{\boxed{}}$$

$$\frac{15}{20} - \frac{2}{20} - \frac{2}{20} = \frac{\boxed{}}{\boxed{}}$$

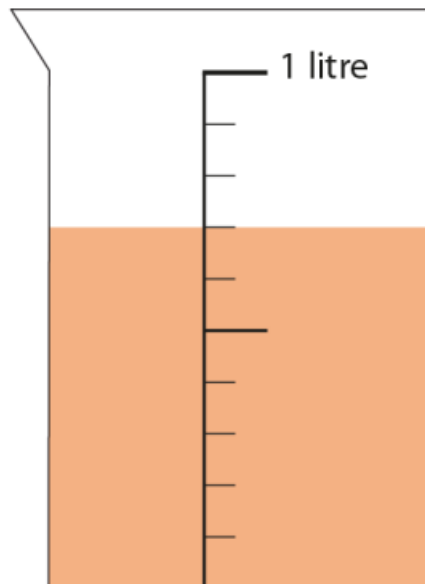
Sofia had a jug with $\frac{7}{10}$ litre of juice.

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

How much does she have left?

$$\frac{17}{24} - \frac{7}{24} - \frac{9}{24} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{5}{9} - \frac{2}{9} - \frac{3}{9} = \frac{\boxed{}}{\boxed{}}$$



Tuesday 10.05.22

MPI: Subtracting fractions with the same denominator.

CHALLENGE

What fractions could be placed in this equation to make it correct?

How many ways are there to complete it? Journal in your maths book.

$$\frac{2}{8} = \frac{7}{8} - \frac{\square}{8} - \frac{\square}{8}$$

How many different numbers could be used to complete this comparison statement? Journal in your maths book.

$$\frac{3}{12} < \frac{8}{12} - \frac{\square}{12}$$

Tuesday 10.05.22

MPI: Subtracting fractions with the same denominator.

CHALLENGE

What fractions could be placed in this equation to make it correct?

How many ways are there to complete it? Journal in your maths book.

$$\frac{2}{8} = \frac{7}{8} - \frac{\square}{8} - \frac{\square}{8}$$

How many different numbers could be used to complete this comparison statement? Journal in your maths book.

$$\frac{3}{12} < \frac{8}{12} - \frac{\square}{12}$$

Fill in the missing numbers:

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

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

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

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

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

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

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

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

$$\frac{\square}{\square} = \frac{5}{14} + \frac{8}{14}$$

$$\frac{\square}{\square} = \frac{6}{12} + \frac{3}{12}$$

$$\frac{\square}{\square} = \frac{13}{14} - \frac{8}{14}$$

$$\frac{6}{12} = \frac{\square}{\square} - \frac{3}{12}$$

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

$$\frac{\square}{\square} = \frac{7}{20} + \frac{3}{20}$$

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

$$\frac{7}{20} = \frac{\square}{\square} - \frac{3}{20}$$

Wednesday 11.05.22

MPI: Understanding the inverse of adding and subtracting fractions.

CHALLENGE

Fill in the missing symbols (+, - or =). Complete each statement each statement in two different ways. You may use each symbol more than once.

$$\frac{10}{15} \bigcirc \frac{4}{15} \bigcirc \frac{6}{15}$$

$$\frac{10}{15} \bigcirc \frac{4}{15} \bigcirc \frac{6}{15}$$

Wednesday 11.05.22

MPI: Understanding the inverse of adding and subtracting fractions.

CHALLENGE

Fill in the missing symbols (+, - or =). Complete each statement each statement in two different ways. You may use each symbol more than once.

$$\frac{10}{15} \bigcirc \frac{4}{15} \bigcirc \frac{6}{15}$$

$$\frac{10}{15} \bigcirc \frac{4}{15} \bigcirc \frac{6}{15}$$

For each of these equations, first convert the whole into a fraction and then write the answer:

$$1 - \frac{5}{9} =$$

$$1 - \frac{4}{9} =$$

$$1 - \frac{4}{11}$$

$$1 - \frac{8}{11}$$

	True (✓) or false (✗)?
$1 - \frac{5}{12} = \frac{7}{12}$	
$1 - \frac{3}{8} = \frac{3}{8} - \frac{8}{8}$	
$1 - \frac{3}{7} - \frac{2}{7} = \frac{5}{7}$	
$1 - \frac{6}{6} = 0$	

Thursday 12.05.22

MPI: Converting the whole into a fraction to subtract.

CHALLENGE

Fill in the missing numbers. _

$$1 - \frac{\boxed{}}{\boxed{}} = \frac{5}{14}$$

$$1 - \frac{\boxed{}}{\boxed{}} - \frac{2}{8} = 0$$

How would I work out the equation below? Journal in your maths book.

$$\frac{11}{11} - \frac{11}{12} =$$

Thursday 12.05.22

MPI: Converting the whole into a fraction to subtract.

CHALLENGE

Fill in the missing numbers. _

$$1 - \frac{\boxed{}}{\boxed{}} = \frac{5}{14}$$

$$1 - \frac{\boxed{}}{\boxed{}} - \frac{2}{8} = 0$$

How would I work out the equation below? Journal in your maths book.

$$\frac{11}{11} - \frac{11}{12} =$$