Three Cards

The Problem

Here are some fraction cards.

A	B	C

- Each fraction has 7 as the denominator.
- A is twice as big as B.
- The sum of the cards is 1

What could the cards be?

My Solution

$A + B + C = 1$

$\frac{\quad}{7} + \frac{\quad}{7} + \frac{\quad}{7} = \frac{7}{7}$

e.g. $\frac{4}{7} + \frac{2}{7} + \frac{1}{7} = \frac{7}{7}$

so the cards could be ...

$A = \frac{4}{7}$ $B = \frac{2}{7}$ $C = \frac{1}{7}$

The Symbol

The Problem

The symbol ☆ means

Double the first number and then subtract the second number

Calculate

$$\frac{2}{5} \star \frac{3}{5}$$

My Solution

Double $\frac{2}{5}$ then subtract $\frac{3}{5}$

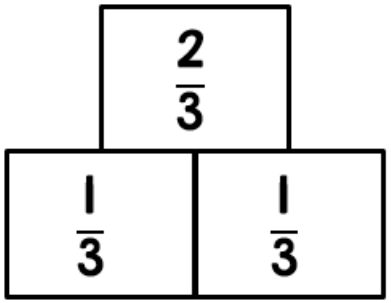
$$\frac{2}{5} + \frac{2}{5} - \frac{3}{5} = \frac{1}{5}$$

$$\frac{2}{5} \star \frac{3}{5} = \frac{1}{5}$$

Pyramids 1

The Problem

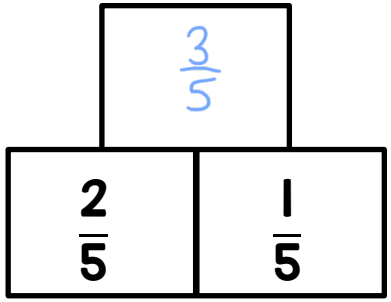
Here is a fraction pyramid.

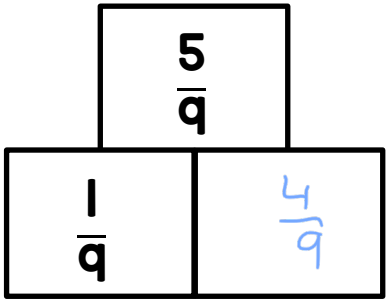


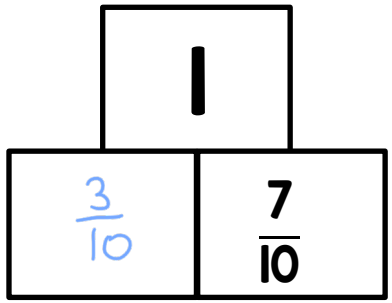
The number above is calculated by adding the two fractions below.

Work out the missing numbers in the pyramids opposite.

My Solution



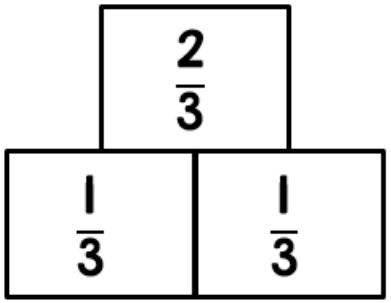




Pyramids 2

The Problem

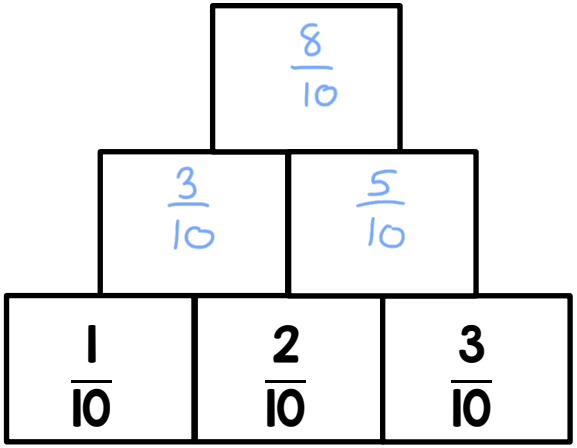
Here is a fraction pyramid.

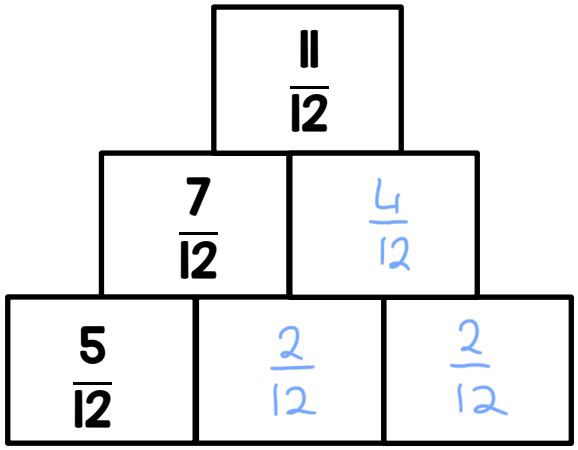


The number above is calculated by adding the two fractions below.

Work out the missing numbers in the pyramids opposite.

My Solution





Total Length

The Problem

This line is $\frac{3}{20}$ of a metre long.

①

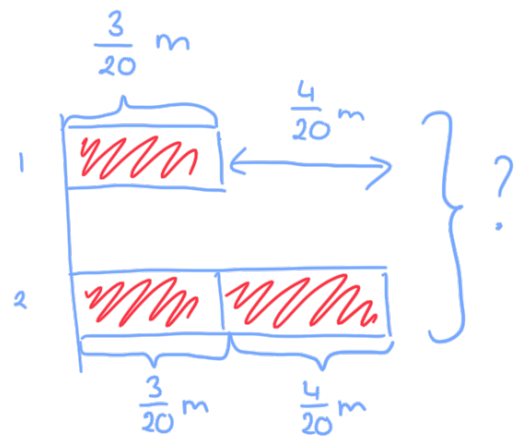
This line is $\frac{4}{20}$ metre longer than the line above.

②

What is the total length of the two lines?

Can you write your answer in cm too?

My Solution



$\frac{3}{20}m + \frac{3}{20}m + \frac{4}{20}m = \frac{10}{20}m$

The total length of the two lines is $\frac{10}{20}$ m. This is the same as 50 cm.