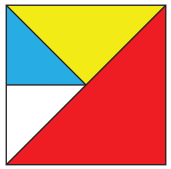
Y4 Learning at home activity sheet #3

Problem 1:

What fraction of this shape is red?
What fraction is yellow?
What fraction is blue?



Can you draw a different shape with the same fractions of each colour?

Problem 2:

How many cubes with sides 1cm long does it take to make a cube with sides 2cm long?

Problem 3:

When children in Viv's class got into groups the same size, no one was left out. What might the size of the groups be if there are 18 people in Viv's class?

Project:

Draw a map of your living room. Make it as accurate as you can. Include doors and windows, the TV if you have one, and any other furniture. How will you make sure that things are the right sizes?

Quick questions:

1. What is half of 14?
2. If 12 lollies are shared equally between 3 people how many does each get?
3. 19 x 10 = __?
4. What number is one less than 470?
5. Write one half as a fraction.
6. How many tens are there in 210?
7. What number is one more than 649?
8. What is half of $8?
9. Which of these measures length: metres, litres, or kilograms?
10. Is 11 an even number?

Number facts:

Cut out the cards on the attached sheet and shuffle them.
How fast can you match each equation with the correct answer?
Try to beat your time.

Thirty centimetres around:

Get a piece of string or wool 30cm long. If you don't have a ruler, that is the length of a piece of A4 paper.

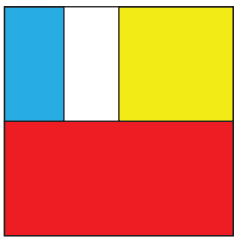
How many things around your house can you find that your piece of string wraps around with almost no overlap?

Learning at home: Notes for whānau

When your child finishes each activity, ask them to add a mouth to the face to show how they felt about that activity.

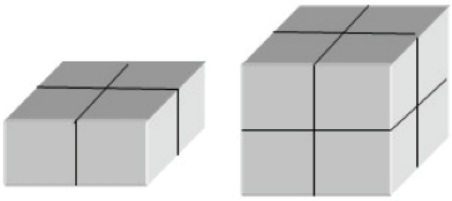
Problem 1:

One half ($\frac{1}{2}$) of the shape is red.
One ($\frac{1}{4}$) quarter is yellow.
One ($\frac{1}{8}$) eighth is blue.
There are many ways that you can colour a square in these fractions. Here is an example:



Problem 2:

To make a cube with sides 2cm long you need to make a layer of 4 cubes (2x2), which is 1cm high, and then add another 4 cubes on top to make the new cube 2cm high.



The total number of cubes is 2 x 2 x 2, which is 8 cubes.

Problem 3:

You could solve this problem using counters. The challenge is that you don't know either the number of groups or the size of the groups.

By experimentation your child should be able to work out that the possibilities are:

- 2 groups of 9
- 3 groups of 6
- 6 groups of 3
- 9 groups of 2

Project:

Start with an outline of the shape of your living room. Discuss how to get it right. Is it longer or wider, is it a rectangle, or a more complicated shape?

Next add any doors and windows. How will your child get these the right size compared to the walls?

Encourage your child to add as much detail as possible.

Quick questions:

1. 7
2. 4
3. 190
4. 469
5. $\frac{1}{2}$
6. 21
7. 650
8. $4
9. Metres
10. No

2 + 9	11	3 + 8	11
3 + 9	12	4 + 7	11
4 + 8	12	4 + 9	13
5 + 6	11	5 + 7	12
5 + 8	13	5 + 9	14
6 + 7	13	6 + 8	14
6 + 9	15	7 + 8	15
7 + 9	16	8 + 9	17