Y6 Learning at home activity sheet #2

Problem 1:

How long is one million seconds?

Problem 2:

Jenny is playing with her name and with numbers.
She lets all her consonants equal 1.3 and all her vowels equal 0.5.
So the value of Jenny's name is 1.3 + 0.5 + 1.3 + 1.3 + 1.3 = 5.7
What is the value of your name?
Change the rules so that the value of your name is 5.5.

Problem 3:

How many lines of symmetry do each of these shapes have?

Number facts:

Have a family member test you on the number facts from the attached sheet. They can ask you any of the sums on each card. Choose two or three that you found more difficult and practice them a few times every day, so that you can answer any of the questions quickly.

Quick questions:

1. How many sides does a hexagon have?
2. 1 cup is 250ml. How many cups are there in a litre?
3. Which is more, 1.4 or $1\frac{1}{3}$?
4. List the first 5 odd numbers.
5. What is 0 x 10?
6. How many centimetres are there in 3.8 metres?
7. How many 20 cent coins does it take to make 5 dollars?
8. Which is more, $\frac{1}{3}$ or $\frac{2}{5}$?
9. What is 50% of $20?
10. What is 20 x 7?

Project:

Find a recipe. Work out how much you would need of each ingredient to make triple the recipe.

Ask a family member if there is a recipe you can help measure the ingredients for. What tools do you use to measure?

Number line challenge:

Draw a number line. Put these numbers on it. Think carefully about which numbers to put on first and how long your number line needs to be.

0, $\frac{120}{3}$, 8.5, $20\frac{1}{3}$, 10, 50.7

Add the ages of members of your whānau to the number line.

nzmaths.

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:

1,000,000 ÷ 60 = 16,666.7, so 1,000,000 seconds = 16,666.7 minutes

16,666.7 ÷ 60 = 277.8, so 1,000,000 seconds = 277.8 hours

277.8 ÷ 24 = 11.57, so 1,000,000 seconds = 11.57 days

1,000,000 seconds is 11 days, 13 hours, 46 minutes and 40 seconds

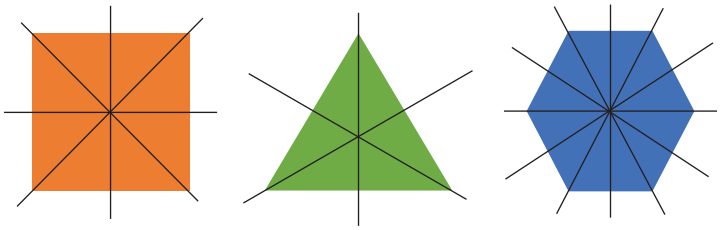
Problem 2:

The answer to this will vary depending on your child's name.

To work out how to change the rules to make their name equal 5.5, it will help to first work out how many vowels and how many consonants they have in their name. Next they can work out how much they need to increase or decrease the value of their name. Then they should be able to work out a change that will work. If they get really stuck you might suggest that they could make the value of capital letters be something different.

Problem 3:

The square has 4 lines of symmetry, the triangle has 3 lines of symmetry, and the hexagon has six lines of symmetry. See below:



Project:

If possible, have your child help measure the ingredients for a recipe. Talk about the different tools you use for measuring in the kitchen:

- Measuring spoons for small volumes
- Measuring cups or measuring jugs for larger volumes
- Scales for weights

Discuss how accurate your measurements need to be.

Talk about what ingredients you don't need to measure:

- A pinch of salt
- Oil for cooking
- Herbs and spices (for some recipes)
- Things you count instead of measuring (for example 2 eggs)

Problem 3:

The first thing to do in creating this number line is to work out what numbers should go closest to each end. Here are the numbers to place on the line in order from smallest to largest.

$0,\ 6\ ,\ 8.57\ ,\ 10,\ 20\frac{1}{3}\ ,\frac{120}{3}, 50.7.$

The smallest number is 0, and the largest number is 50.7, so put those in first.

Then work out about where each other number belongs. Many of the numbers are close to multiples of 10 ($\frac{120}{3} = 40$), so you could put those in next.

It is not important that numbers be placed accurately, but make sure they are in the right order and the spacing is reasonable. Here is a possible answer:

Quick questions:

1. 6
2. 4
3. 1.4
4. 1, 3, 5, 7, 9
5. 0
6. 380
7. 25
8. $\frac{2}{5}$
9. $10
10. 140

3 x 4 = 12 4 x 3 = 12 12 ÷ 4 = 3 12 ÷ 3 = 4	3 x 6 = 18 6 x 3 = 18 18 ÷ 6 = 3 18 ÷ 3 = 6
3 x 7 = 21 7 x 3 = 21 21 ÷ 7 = 3 21 ÷ 3 = 7	3 x 8 = 24 8 x 3 = 24 24 ÷ 8 = 3 24 ÷ 3 = 8
3 x 9 = 27 9 x 3 = 27 27 ÷ 9 = 3 27 ÷ 3 = 9	4 x 4 = 16 16 ÷ 4 = 4
6 x 6 = 36 36 ÷ 6 = 6	7 x 7 = 49 49 ÷ 7 = 7
8 x 8 = 64 64 ÷ 8 = 8	9 x 9 = 81 81 ÷ 9 = 9

4 x 6 = 24 6 x 4 = 24 24 ÷ 6 = 4 24 ÷ 4 = 6	4 x 7 = 28 7 x 4 = 28 28 ÷ 7 = 4 28 ÷ 4 = 7
4 x 8 = 32 8 x 4 = 32 32 ÷ 8 = 4 32 ÷ 4 = 8	4 x 9 = 36 9 x 4 = 36 36 ÷ 9 = 4 36 ÷ 4 = 9
6 x 7 = 42 7 x 6 = 42 42 ÷ 7 = 6 42 ÷ 6 = 7	6 x 8 = 48 8 x 6 = 48 48 ÷ 8 = 6 48 ÷ 6 = 8
6 x 9 = 54 9 x 6 = 54 54 ÷ 9 = 6 54 ÷ 6 = 9	7 x 8 = 56 8 x 7 = 56 56 ÷ 8 = 7 56 ÷ 7 = 8
7 x 9 = 63 9 x 7 = 63 63 ÷ 9 = 7 63 ÷ 7 = 9	8 x 9 = 72 9 x 8 = 72 72 ÷ 9 = 8 72 ÷ 8 = 9