



Greenacre Public School Mathematics Grid

Stage 3

Complete two activities from the grid each day. Share some of your work with your teacher on Seesaw when you can.

Activity 1

1. Choose a two-digit number with no repeated digit, e.g. 27
2. Reverse the digits to make a second number.
72
3. Subtract the smaller number from the larger number.
 $72 - 27 = 45$
4. Find the difference between your original two digits.
 $7 - 2 = 5$
5. Divide your answer by this difference.
 $45 \div 5 = 9$
6. Try different numbers.
7. Explain the pattern.

Activity 2

I wish to make a set of dot cards where each card has the numbers 1 to 10 shown in dots.

1. How many dots will I need to make the set?
2. What if I wanted to make other sets, such as 1 to 20?

Before you begin working on this task, rule your paper into 2 columns: Working and Thinking. In your thinking column, write down what you might do to make a start. Write down the problem in your thinking column in a clear way that makes sense to you. List a few ideas of what you might try.

DON'T ACTUALLY BEGIN YET. JUST LIST WHAT YOU THINK YOU MIGHT DO.

Activity 3

Ahmad's family have just opened a Lebanese restaurant. They have enough space for 72 diners.

The fewest amount of people per table is 2.

The greatest amount of people per table is 8.

There must be a variety of table sizes in the restaurant.

Draw two possible floor plans, showing two different ways of how the tables might be arranged.

Activity 4

If you are a soccer goalie, and an attacking player from the other team has broken away from the others and is running toward you, where is the best place for you to stand? Try mapping out different positions depending on the location of the attacking player when she shoots.

Activity 5

Imagine a goat is tied to the corner of a shed by a rope. The shed is 4 metres by 6 metres. The rope is 6 metres long.

1. What do you wonder about this situation?
2. Draw a picture of the situation?
3. What questions do you have?

The sun rises to the east of the shed and sets to the west. The goat would appreciate some shade.

4. Where would you plant a tree?
5. What tree would you plant?

Activity 6

Amirah has \$7.25 in her pocket. She has a combination of notes and coins. What notes and coins might Amirah have in her pocket? List some possibilities.

Choose three of these possibilities to draw.

Activity 7

Choose **four** digits between 1 and 9. (e.g., 1,2,3,7)

Create as many numbers involving **decimals** as you can, using these four digits: (e.g., 1.6, 2.1, 3.2, 7.16)

- 1) Write your numbers in ascending order.
- 2) Write your numbers in descending order.
- 3) Place your numbers on a number line.
- 4) Draw a picture which represents each decimal.

Activity 8

Myah had 8 stickers. She shared some with Sarah.

How many stickers could Myah have shared with Sarah, and how many stickers could she have left.

Record some possible answers.

Activity 9

Amina loves planting colourful flowers in her flower garden. Today, she has 2 yellow flowers, 3 red flowers, 4 orange flowers and 1 pink flower.

She wants to plant them in a straight line along the front of her garden.

Draw some possible flower arrangements.

Is it possible to draw a line of flowers so that no two flowers of the same colour are together?

Activity 10 Noah is thinking of a -five-digit number. The number is greater than 33 000 and less than 34 000. The digit in the hundreds column is the same as the digit in the units column. All of the digits in the number are odd. What could Noah's number be? List some possibilities.	Activity 11 The total perimeter of a 2D octagon is 48cm. The horizontal length of the octagon is 12cm. Draw as many possibilities as you can that meet this criteria.	Activity 12 A rectangle has an area of 120 cm². Its length and width are whole numbers. What are the possibilities for the two numbers? Which possibility gives the smallest perimeter?
--	---	---