Year 3 Maths Remote learning 1.2.21 – 5.2.21

This pack contains:

- 5 lessons with tasks (to be completed in your homework book)

Skills for this week:
- Representing division problems
- Using images to develop our fluency with division
- Reasoning with division problems
- Solving division with grouping problems

Lesson 1

LO: To show grouping problems with resources.

Watch Miss Simpson's video and then choose your challenge to complete. You will need counting resources for this. You could use:
- Pasta
- Lego
- https://mathsbot.com/manipulatives/numberFrames for numicon or counters

Mild

1. Granny Smith has 10 apples on her tree. If she picks 2 apples a day, how many days will it take her to pick all of the apples off the tree?

2. Sam has 15 chocolate cakes. She puts 3 cakes in each box. How many boxes does she have?

3. Jenny has 25 flowers. She puts 5 flowers in each vase. How many vases does she have?

4. Ben has 20 sweets to go in party bags. He puts 5 sweets in each party bag. How many party bags does he need?
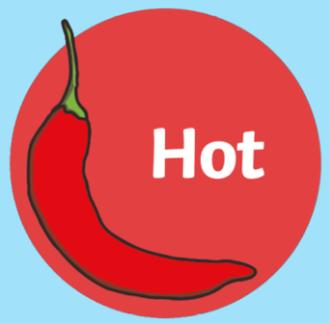
Lesson 1

Represent these problems using resources. We are more interested in what the problem **looks like** rather than the answer.

1. Granny Smith has 36 apples on her tree. If she picks 3 apples a day, how many days will it take her to pick all of the apples off the tree?

2. Jack has 18 seeds. He plants 3 seeds in each pot. How many pots does he need?

3. Sam has 24 chocolate cakes. She puts 4 cakes in each box. How many boxes does she have?

4. Jenny has 40 flowers. She puts 5 flowers in each vase.
   Jenny thinks she has 35 vases. Is she correct? Why?

Lesson 1

Represent these problems using resources. We are more interested in what the problem **looks like** rather than the answer.

Hot

1. Granny Smith has 36 apples on her tree. How many apples could she pick a day so that she has no apples left over?

2. Jack has 18 seeds. How many different ways could he group the seeds equally?

3. Sam has 24 chocolate cakes. If she put 5 in each box, will she have any left over? If so, then how many?

4. Jenny has 40 flowers. How many flowers could she put in a vase each day to have none left over?

Lesson 2
LO: To represent grouping problems using images and models.

Today you are going to solve division problems by using bar models and part-whole models. Watch the video and look at the part-whole model Miss Simpson has drawn. Then, choose your challenge.

Granny Smith had 15 apples on her tree. If she picks 3 apples a day, how many days until there are no apples left?

total number of apples

each part shows one day - 3 apples a day

There will be no apples left after 5 days.
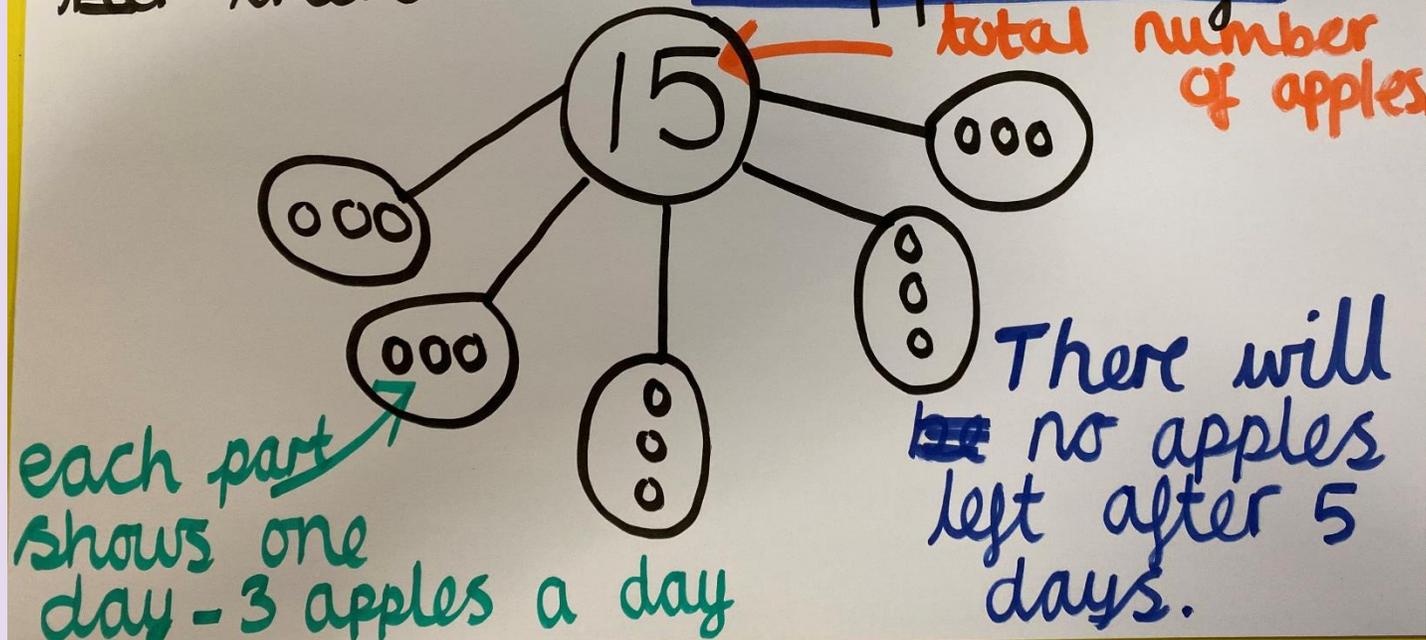
Lesson 2

For these problems, draw the bar model and part-whole model like you were shown in the last slide.

1. Granny Smith has 14 apples on her tree. If she picks 2 apples a day, how many days will it take her to pick all of the apples off the tree?

2. Miss Simpsons needs 10 lemons to make lemonade. Lemons come in bags of 5.
How many bags of lemons does Miss Simpson need?

3. Farmer Joe has 12 eggs and wants to put them in boxes of six.
How many boxes does he need?

Lesson 2

Spicy

Draw the bar model and part whole model for these two questions.

1. Granny Smith has 36 apples on her tree. If she picks 3 apples a day, how many days will it take her to pick all of the apples off the tree?

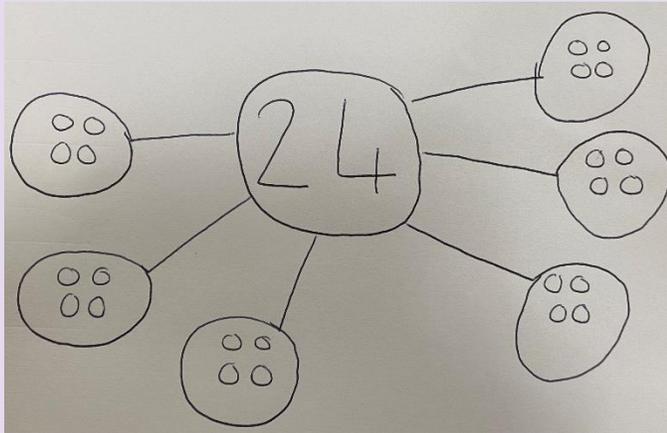2. Jack has 18 seeds. He plants 3 seeds in each pot. How many pots does he need?

Lesson 2

Spicy

Match the bar model and part whole model to the correct question. Think carefully about how many are in each group.

3. Sam has 24 chocolate cakes. She puts 4 cakes in each box. How many boxes does she have?
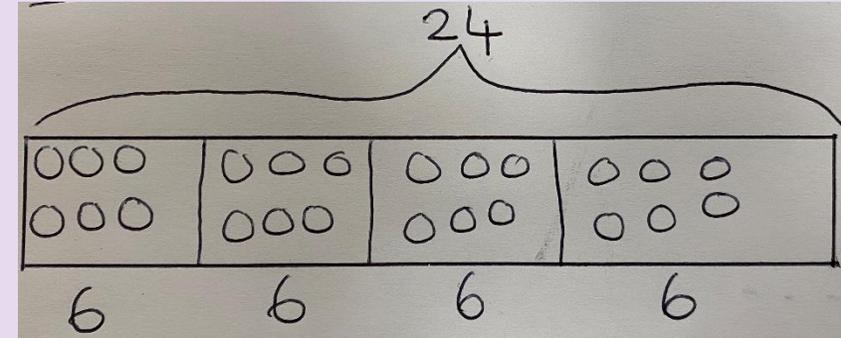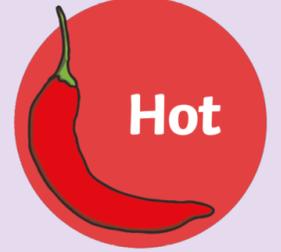

4. In a class, there are 24 children. In a PE lesson, the teacher groups the children into groups of 6. How many groups were there?
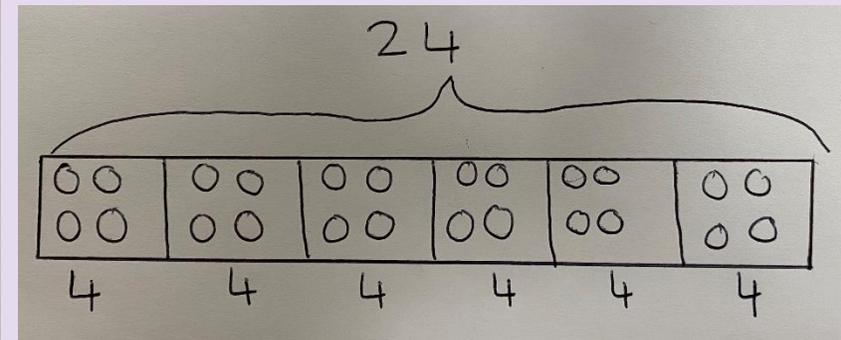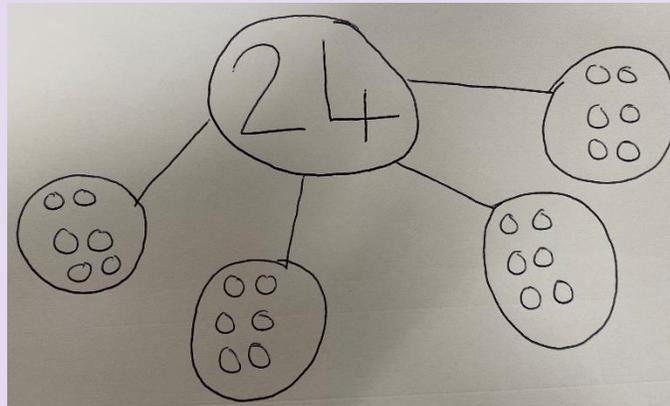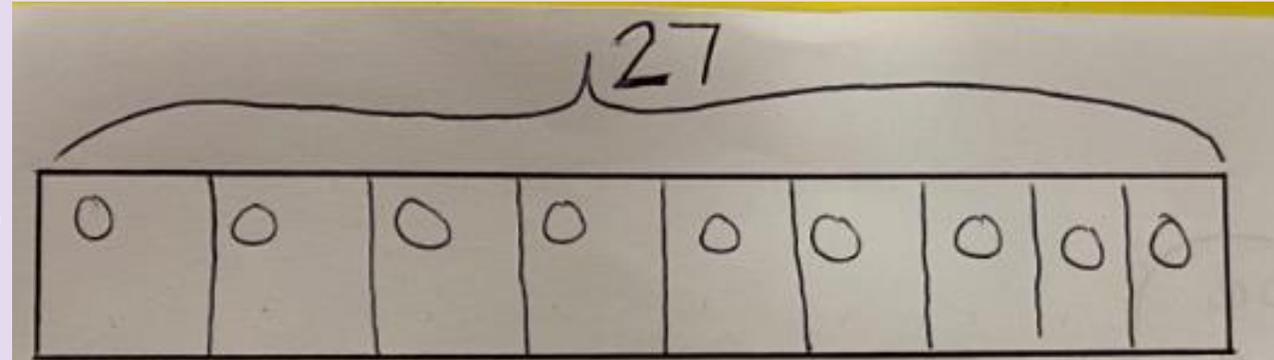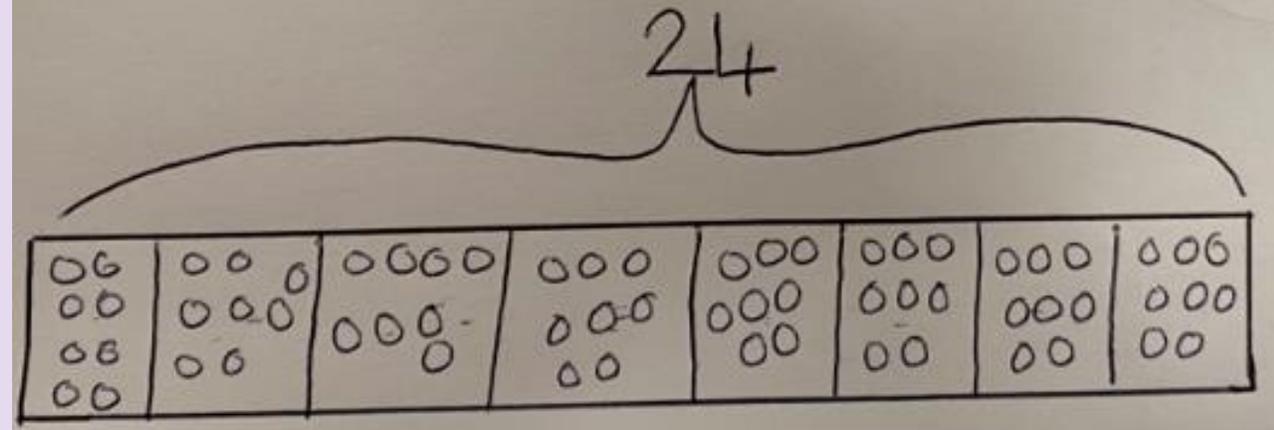
Are these images correct for the problems? If not, draw the correct image.

Hot

1. Granny Smith has 27 apples on her tree. If she picks 9 apples a day, how many days will it take her to pick all of the apples off the tree?

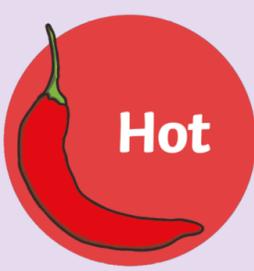2. Jack has 24 seeds. He plants 8 seeds in each pot. How many pots does he need?

Can you draw 3 part whole models for each problem?

Hot

3. In a class, there are 32 children. How many different ways can the teacher group the children?

4. Miss Simpson has bought a bag of 56 sweets. She wants to give some to her friends. How many different ways can she group the sweets?
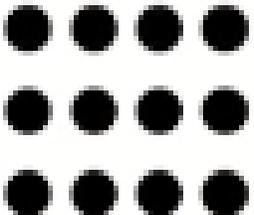
Lesson 3

LO: To use arrays for fact families.

Mild
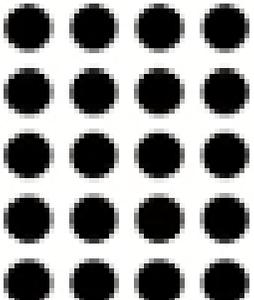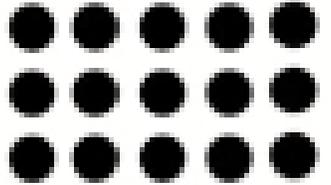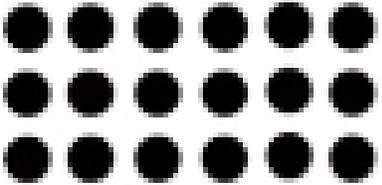
Watch the video and then choose your chilli challenge to complete.

Write 1 multiplication and 1 division sentence for each array.
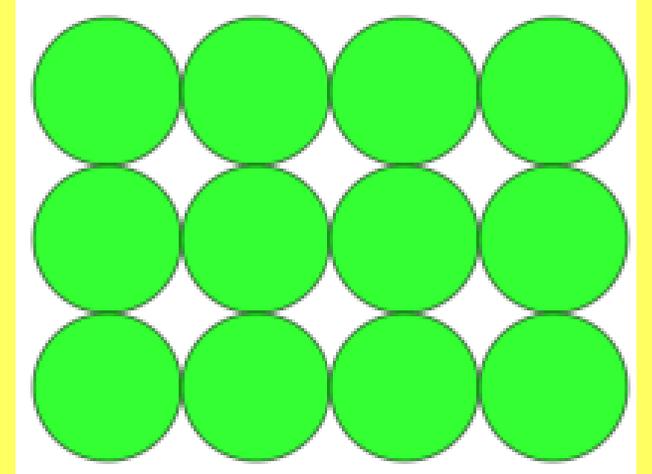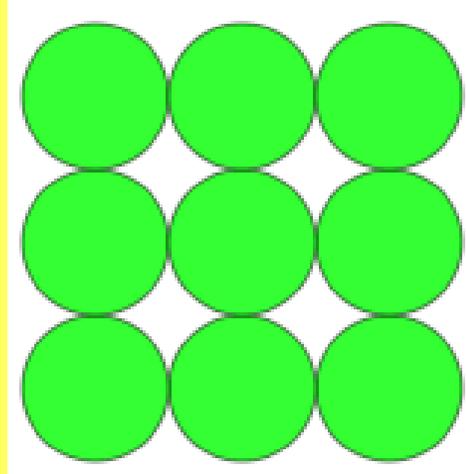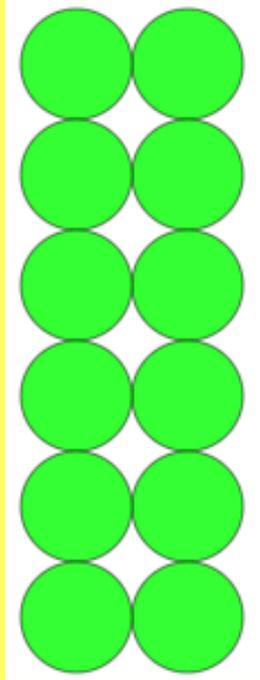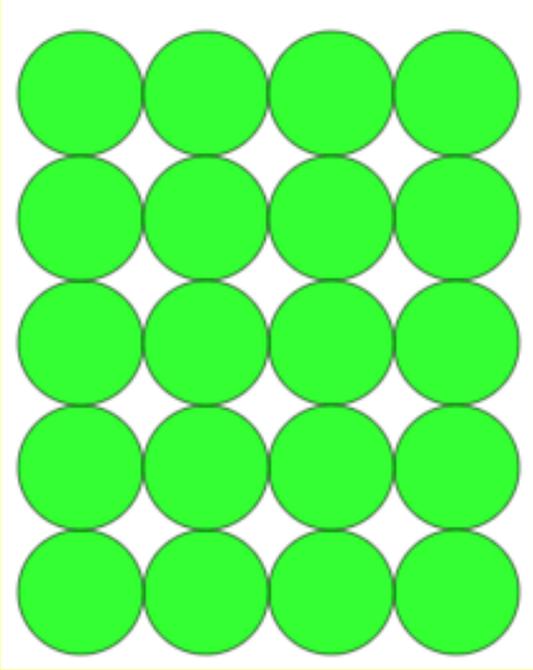
_____ X _____ = _____

_____ ÷ _____ = _____

Lesson 3
LO: To use arrays for fact families

Write the fact families for each of the arrays.

Spicy

Lesson 3
LO: To use arrays for fact families

Hot
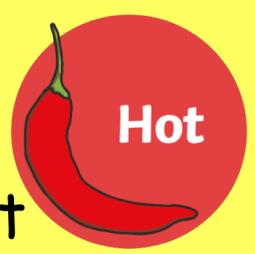
How many different arrays can you make for these numbers? Write the fact families for each array you draw.

32

36

12

18

24

Lesson 4

LO: To link number facts together.

Watch Miss Simpson's video and then choose your chilli challenge.

Mild

Have a try at solving these problems. For numicon, use
https://mathsbot.com/manipulatives/numberFrames

If I know 10 ÷ 5 = 2 then I know that 10 ÷ 10 = _____

If I know 12 ÷ 2 = 6 then I know that 12 ÷ 4 = _____

If I know that 8 ÷ 2 = 4 then I know that 8 ÷ 4 = _____

If I know that 16 ÷ 4 = 4 then I know that 16 ÷ 8 = _____

Lesson 4

Have a try at solving these problems. For numicon, use
https://mathsbot.com/manipulatives/numberFrames

If I know 36 ÷ 3 = 12 then I know that 36 ÷ 6 = _____

If I know 24 ÷ 4 = 6 then I know that 24 ÷ 8 = _____

If I know that 48 ÷ 4 = 12 then I know that 48 ÷ 8 = _____

If I know that 32 ÷ 4 = 8 then I know that 32 ÷ 8 = _____

Lesson 4

Have a try at solving these problems. For numicon, use
https://mathsbot.com/manipulatives/numberFrames

Hot

If I know 78 ÷ 13 = 6 what else do I know?

If I know 30 ÷ 5 = 6 what else do I know?

If I know that 48 ÷ 4 = 12 what else do I know?

If I know that 32 ÷ 4 = 8 what else do I know?

Lesson 5
LO: To solve problems involving grouping for division.

Watch the video then choose your chilli challenge.
Your success criteria is:

1. Read the question
2. Highlight key parts
3. Write number sentence
4. Draw images for the problem
5. Answer number sentence
6. Answer the problem

Lesson 5

Watch Miss Simpson's video and then follow the success criteria to solve these problems:

1. Granny Smith had 15 apples on her tree.
If she picks 5 a day, how many days until she has picked all of the apples off of the tree?

2. There are 20 cars in the car park. Every hour, 5 cars leave. How many hours until there are no cars left in the car park?

3. Jack had 22 cakes. He put 2 on each plate.
Is 10 plates enough?

Mild

Lesson 5

Watch Miss Simpson's video and then follow the success criteria to solve these problems:

1. Granny Smith had 36 apples on her tree. If she picks 3 a day, how many days until she has picked all of the apples off of the tree? What if she picked 6 a day?

2. There are 27 cars in the car park. Every hour, 3 cars leave the car park. How many hours until the car park is empty? What if 6 cars left the car park every hour?

3. Jack had 22 cakes. He put 2 on each plate. Will 10 plates be enough? If not, how many more plates does he need?

Lesson 5

Watch Miss Simpson's video and then follow the success criteria to solve these problems:

1. Granny Smith had 78 apples on her tree. Is it possible for her to pick 6 apples every day for a fortnight?

2. There are 30 cars in the car park. Every hour, 5 cars leave the car park. Will there be any cars left after 5 hours? If so, then how many?

3. Jack had 56 cakes. Is it possible for him to put 6 on each plate? If not, why?