

Year 3 Maths Remote learning

This pack contains:

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

You will then need to bring in your homework book when you return to school. The teacher will then be able to give you feedback on the work.

Lesson 1

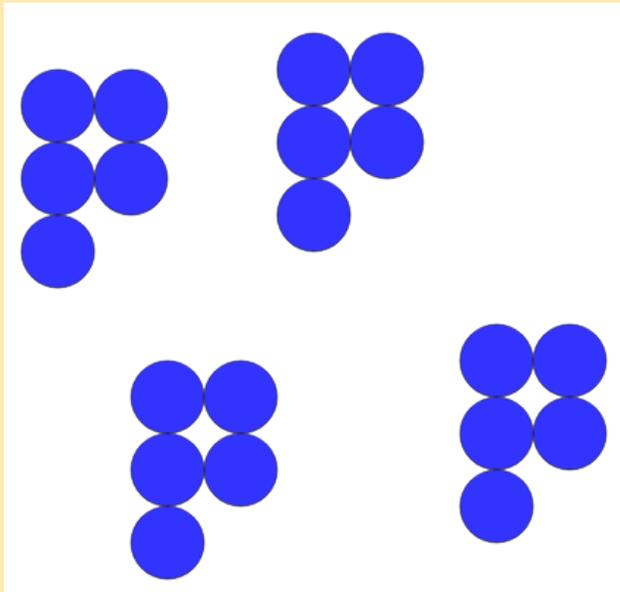
LO: To represent division by grouping.

This week we are practising division using grouping rather than sharing. Today we would like you to show division by grouping using resources. In school, we will be using counters so use anything around the house you might have such as counters, coins, Lego, marshmallows, anything! If you don't have anything, you can use <https://mathsbot.com/manipulatives/counters> for counters.

Here is an example:

$$20 \div 5$$

I am going to groups of 5 until I have 20 counters altogether:



I have groups of 5.
I have 4 groups of 5.
I have 20 altogether.
 $20 \div 5 = 4$

Lesson 1

LO: To represent division by grouping.

Now have a go at the spicy challenges. Remember we are doing grouping not sharing.



1. $21 \div 3$

2. $36 \div 4$

3. $27 \div 3$

4. Albie thinks to work out $24 \div 4$ he needs to have 24 in a group. Explain why is wrong and then show your reasoning with counters.

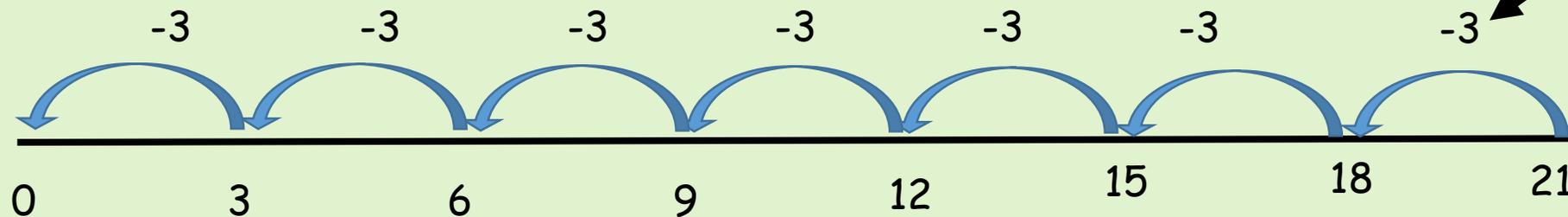
Lesson 2

To use repeated subtraction for division.

Today we are going to use repeated subtraction on a number line to help us solve a division question.

Here is an example:

$$21 \div 3$$



Take away 3 until we get to 0 because that is how many we have in each group.

Once you have got to 0, you need to count how many groups you have taken away.

Here, I have taken away 7 groups of 3, so $21 \div 3 = 7$.

Start here as this is the amount we have to group.

Lesson 2

To use repeated subtraction for division.

Now, choose your challenge. You can also use your counters from yesterday to help you group the problem correctly.



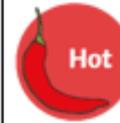
Mild

1. $25 \div 5$
2. $14 \div 2$
3. $40 \div 10$
4. Albie thinks this number line is correct for $15 \div 5$. Correct his number line.



Spicy

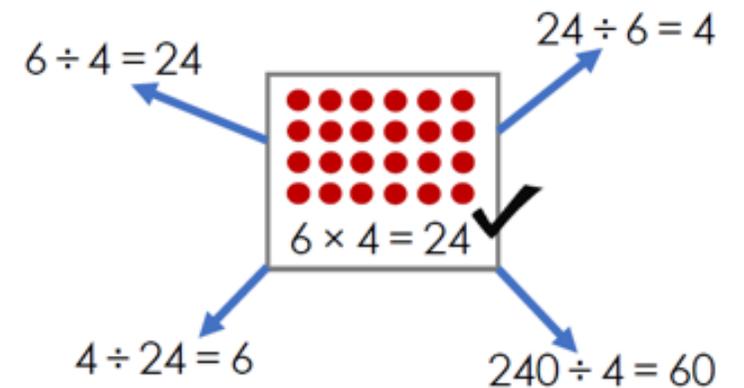
1. $24 \div 3$
2. $28 \div 4$
3. $18 \div 3$
4. Albie thinks this number line is correct for $36 \div 4$. Correct his number line.



Hot

1. $36 \div 3$
2. $60 \div 4$
3. Explain your reasoning for each of your answers to this question:

True or false?



Lesson 3

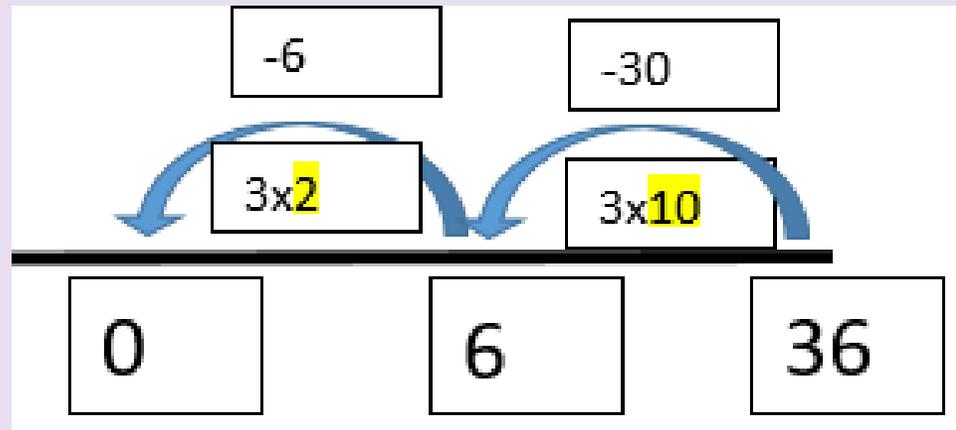
LO: To solve division problems on a number line.

Today, we are going to apply our knowledge from yesterday to problem solving but we are going to take away bigger chunks at a time. Here is an example:

36 scouts go on a camping trip.

Each tent can fit 3 scouts in.

How many tents are needed for all of the scouts?



Here, instead of subtracting lots of 3, I have subtracted larger groups at a time. I have taken away 12 lots of 3 altogether so the answer is 12 tents are needed for all of the scouts.

Lesson 3

LO: To solve division problems on a number line.

If you find this a bit trickier, you can continue to take away smaller groups each time. It is up to you how you would like to challenge yourself. Choose your challenge from these:

 <p>1. I have 25 cakes that need to go into boxes. Each box can fit 5 cakes in. How many boxes do I need?</p> <p>2. I have 14 cakes that need to go into boxes. Each box can fit 2 cakes in. How many boxes do I need?</p> <p>3. I have 40 cakes that need to go into boxes. Each box can fit 10 cakes in. How many boxes do I need?</p> <p>4. Albie has 16 cakes to put into boxes. Each box holds 2 cakes. Albie thinks he needs 10 boxes. Is he correct?</p>	 <p>1. I have 36 cakes that need to go into boxes. Each box can fit 4 cakes in. How many boxes do I need for all of the cakes?</p> <p>2. What if I had 44 cakes?</p> <p>3. What if I had 39 cakes and could fit 3 in each box?</p>	 <p>1. I have 72 cakes to go into boxes. Each box can fit 3 cakes in. How many boxes do I need for all of the cakes?</p> <p>2. What if each box could fit 6 cakes in? How do you know?</p> <p>3. Would it be possible for me to put 8 cakes on each plate without having any left over?</p> <p>4. Write your own word problem where you'd have to use chunking on a number line.</p>
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Lesson 4

LO: To solve division problems.

Today we are solving more problems using number lines. It is just more of an opportunity for you to practise your division by grouping skills. Choose your challenge from these:



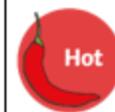
Mild

1. 35 scouts go camping. 5 scouts can fit in each tent. How many tents do the scouts need altogether?
2. What if there were 14 scouts and each tent could fit 2 scouts in?
3. 50 scouts go camping and 10 people can fit in each tent. Will 4 tents be enough for all of the scouts?
4. 15 scouts go camping and 3 scouts fit in each tent. Albie thinks 5 tents will be enough. Is he correct?



Spicy

1. 48 scouts go camping. Each tent can fit 3 scouts in. How many tents are needed for all of the scouts?
2. What if there were 56 scouts and 4 could fit in each tent?
3. Would 12 tents be enough for 36 scouts if 3 scouts could fit in each tent?
4. What if there were 24 scouts and 4 scouts could fit in each tent? Would 5 tents be enough?



Hot

1. 84 scouts go camping. If 4 people fit in a tent, would 19 tents be enough to fit all of the scouts?
2. If 48 scouts went camping, how many different ways could the scouts be grouped equally into tents?
3. Would it be possible to put 6 scouts in each tent if there were 36 scouts? How do you know?
4. Write your own word problem where you'd have to use chunking on a number line.

Lesson 5

Visit Education City under 'Classwork' and 'Remote Learning' to consolidate your division knowledge from this week.

If you need your log in, email year3@elson-jun.hants.sch.uk

You could also visit TTRS.