KS1 Therapy: Y2 Maths

Commissioned by The PiXL Club Ltd.

February 2018

M3j. Can calculate mathematical statements for division using the 2, 5 and 10 times tables


 = Teacher Notes

Teacher information

This resource should be used to support Key Marginal pupils for whom you have completed a PLC. It is designed to be delivered as a teaching activity to a small group or individual in order to fill a gap in their understanding. There is no expectation to use the PowerPoint in its entirety. Choose the methods and resources that suit your school's approach to place value, counting and calculation.

Use of this resource should form part of normal, day-to-day teaching, as you would do with a guided teaching group. This teaching resource is based on the National Curriculum expectations for Key Stage 1, with a focus on the laser-sharp statements from the PiXL PLC.

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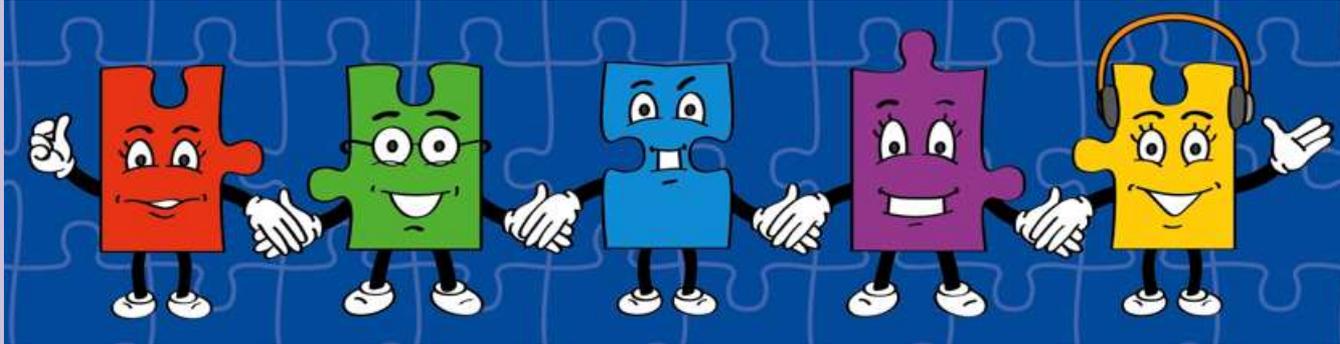
Our Primary Edge attributes help us to become better learners and today is no exception. Before you start this activity, here are some ideas for how you will need your **Raj Resilience** skills today:

- Persevere
- Try different strategies
- Learn from your mistakes

Command Words:
Persevere   Complete
Overcome   Achieve
Sustain   Undertake
Learn over time
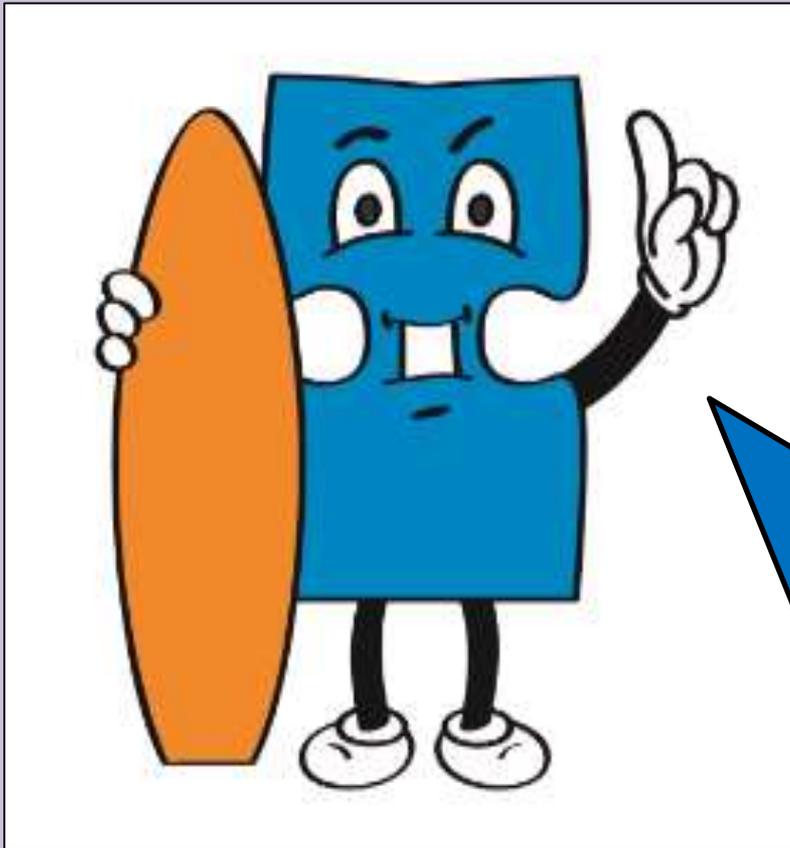
Developing resilience skills
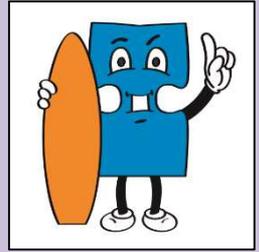
Use this activity to help children develop their resilience skills before you begin the therapy.

Roll the Ball: The object is to work together to move a ball of play dough from point A to point B by rolling it down their rulers without dropping it (if children find the rulers tricky swap them for a hard cover book). If the ball drops they need to start again. Discuss how they could adjust their strategies and learn from past mistakes with each attempt.

Did you learn from your past mistakes? How did you adjust the way you played the game?

What I will be looking for today

You will have lots of chances to demonstrate your resilience skills today. Here's what I'll be looking for:

- Stick at your activity, even when it gets tricky
- Try different strategies to help you
- Learn from your mistakes and try again

Teacher information

- To make the most of this therapy please have some practical resources available to allow the children to practise their skills. This could include: 100 square, number lines, counters, base ten equipment, Numicon and multilink cubes.

Division

Division means splitting an amount or object into equal parts or groups.
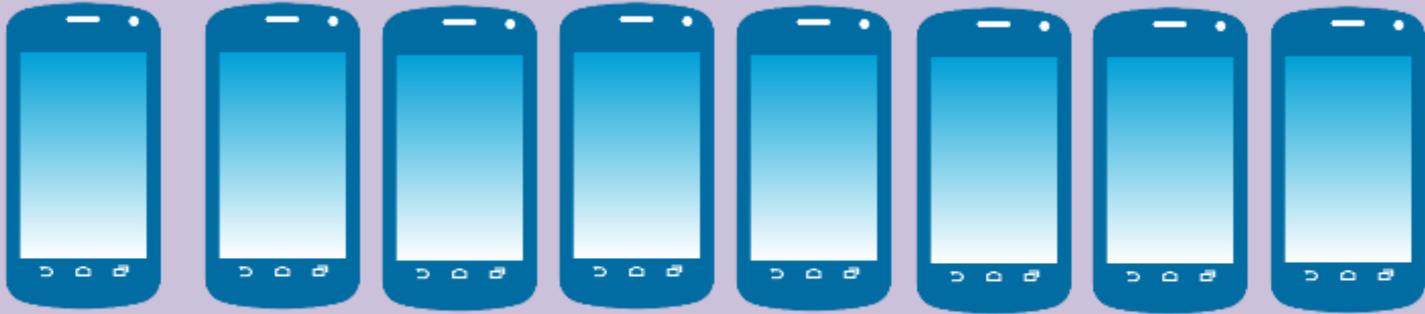
There are 8 phones. To divide them by 4 means sharing them out fairly between 4 – each group must have an equal amount.
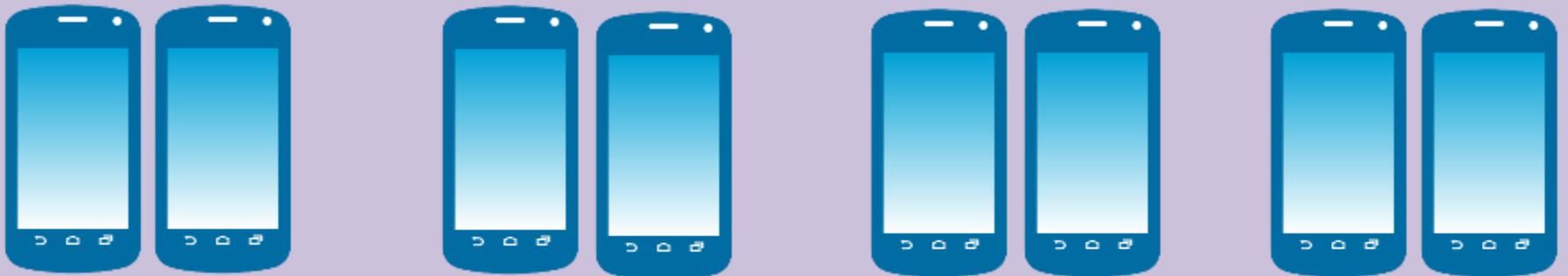
Division

It is important to be able to recall division facts but we also need to understand how we can solve a division statement.
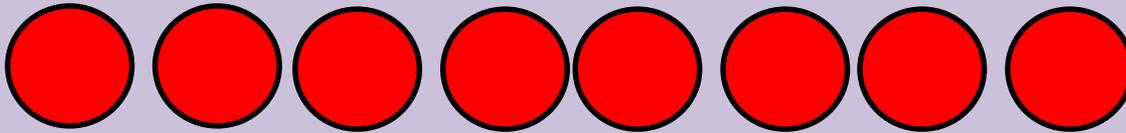
There are many ways to calculate division and after practising a few you can decide which method works best for you.
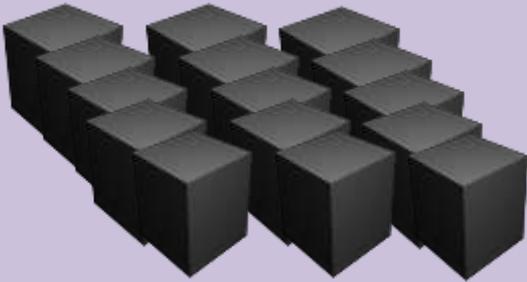
Using counters to solve division

Solve 8 ÷ 2 = ___.

Count out 8 counters. Share them out equally into 2 piles. Count how many are in each pile. If they are all equal that is your answer.

8 ÷ 2 = 4

Practise

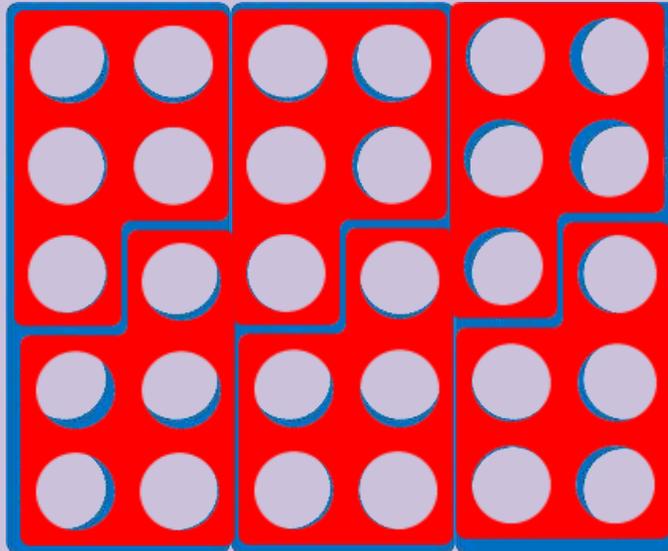Using either counters or cubes calculate this multiplication 15 ÷ 5 = ___.

15 ÷ 5 = 3

Solve 30 ÷ 5.

Make 30 from your number shapes. Then place the number 5 shapes on top until they cover the 30 exactly. Then count how many of the five shapes you used. This is your answer as it shows you how many 5s are in 30.
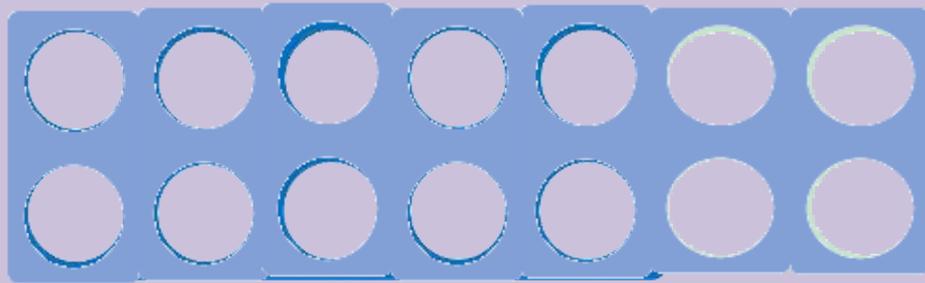

30 ÷ 5 = 6

Practise

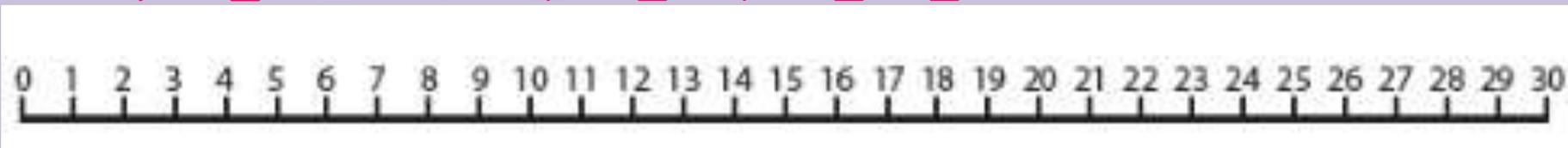Using Numicon or base ten equipment to solve $14 ÷ 2 = \rule{1cm}{0.15mm}$.
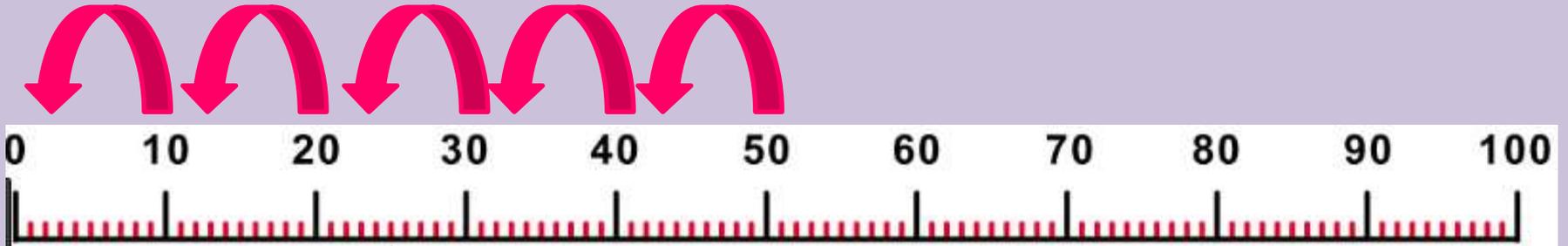
14 ÷ 2 = 7

Solve 18 ÷ 2.

Make 9 jumps of 2 backwards until you get to zero. Now count the number of jumps you made. This is the answer.

18 ÷ 2 = 9

Practise

Solve 50 ÷ 10.

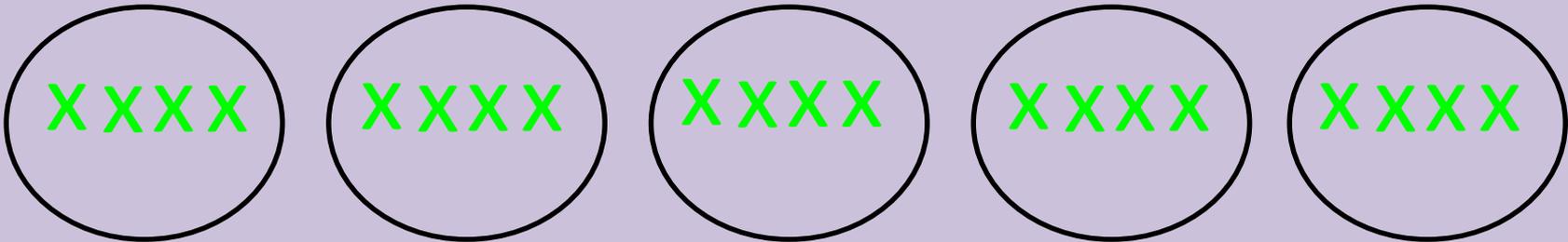50 ÷ 10 = 5

Solve 20 ÷ 5 = ____.

First draw 5 circles because you are dividing/sharing between 5. Write a cross in each circle one at a time until you get to 20. Check each circle has an equal amount. You now have your answer.

X X X X   X X X X   X X X X   X X X X   X X X X

Keep your crosses in neat rows. You will be able to see that you are sharing equally.

20 ÷ 5 = 4

Practise

Use jottings to solve 80 ÷ 10 = ____.

80 ÷ 10 = 8

Practise

Keep practising your multiplication choosing your favourite method.

12	÷	2	=
70	÷	10	=
35	÷	5	=
10	÷	2	=
60	÷	5	=
24	÷	2	=
100	÷	10	=
45	÷	5	=
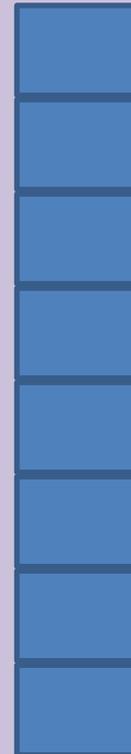
Show Me Tasks

Once the therapy has been delivered you can use Show Me Tasks to demonstrate that the skill is now secure. They are not intended to be completed all at once and ideally should be done in intervals of a few days after the therapy has been delivered. The challenge in the tasks is progressive.

Show Me Tasks

PiXL PRIMARY Mathematics

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Solve the following divisions using a method of your choosing.

15	÷	3	=	
60	÷	10	=	
16	÷	2	=	
40	÷	5	=	

Demonstrate or explain two different ways you can solve a division calculation.
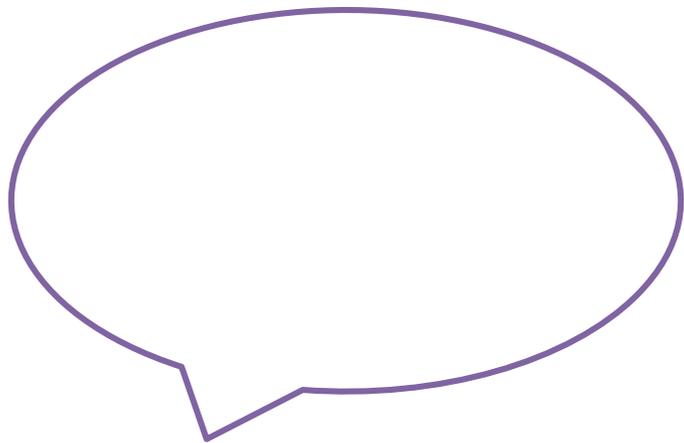
This is a picture of some 5p coins. Can you write a division statement for this picture?