Friday - maths

LO To divide 2 digits by 1 digit with a remainder

Power up

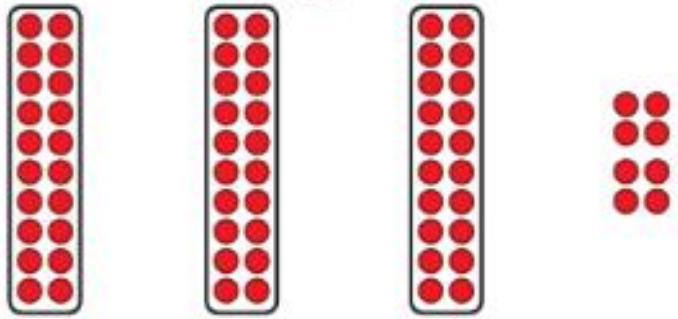
3 **a)** Reena is trying to solve 68 ÷ 2. Check if her answer is correct.

CHALLENGE

10 lots of 2 is 20. I am going to see how many 20s fit into 68 and then divide what is left over.

I know that 30 lots of 2 is 60, and 4 lots of 2 is 8. So I worked out the answer to be 34 lots of 2.

Reena



10 × 2 = 20 | 10 × 2 = 20 | 10 × 2 = 20 | 4 × 2 = 8

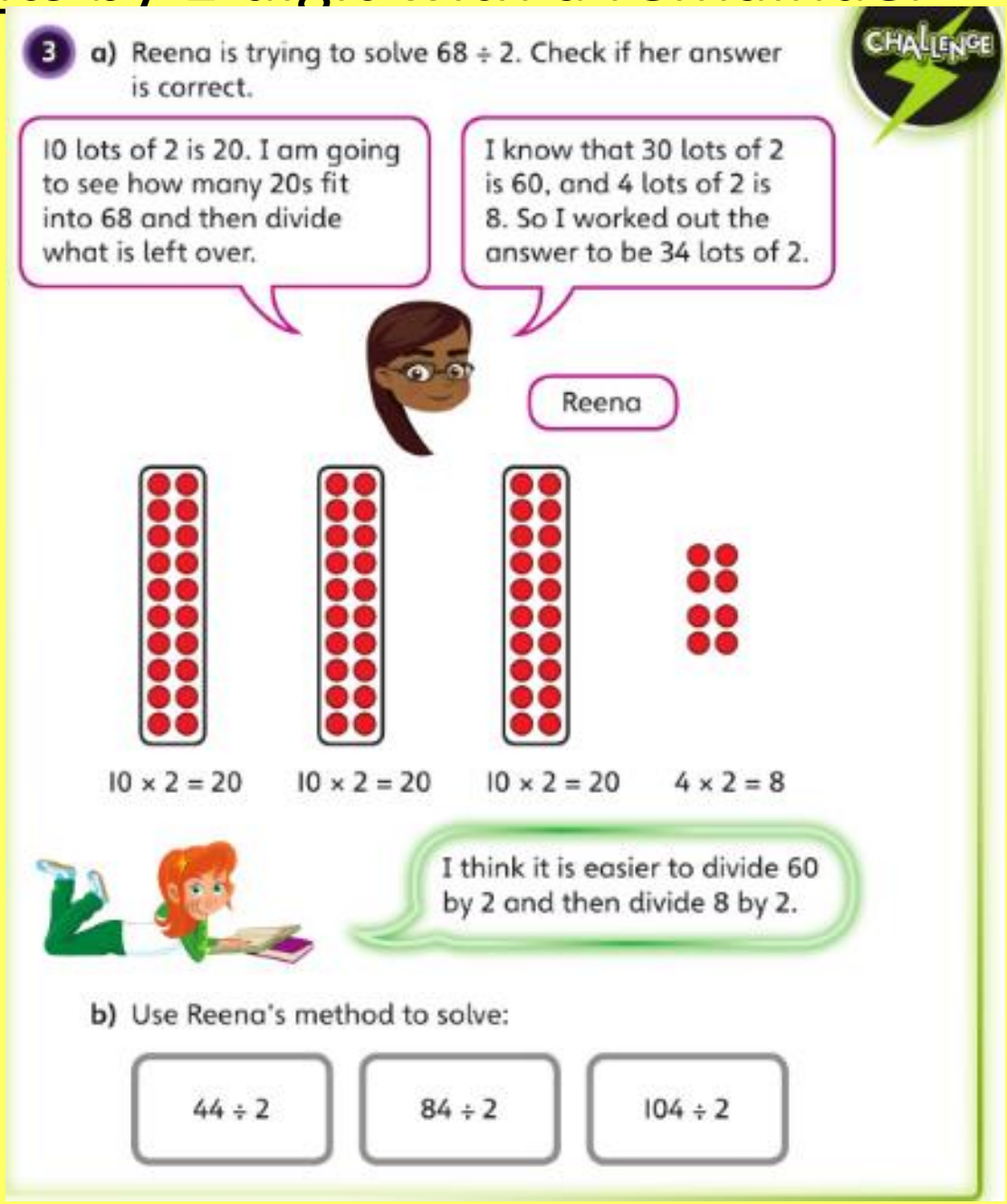
I think it is easier to divide 60 by 2 and then divide 8 by 2.

b) Use Reena's method to solve:

44 ÷ 2	84 ÷ 2	104 ÷ 2

LO To divide 2 digits by 1 digit with a remainder

Power up answer



LO To divide 2 digits by 1 digit with a remainder

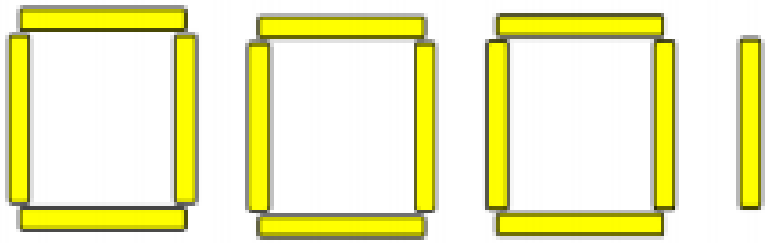
How many squares can you make with 13 lollipop sticks?

There are ___ lollipop sticks.

There are ___ groups of 4

There is ___ lollipop stick remaining.

13 ÷ 4 = ___ remainder ___



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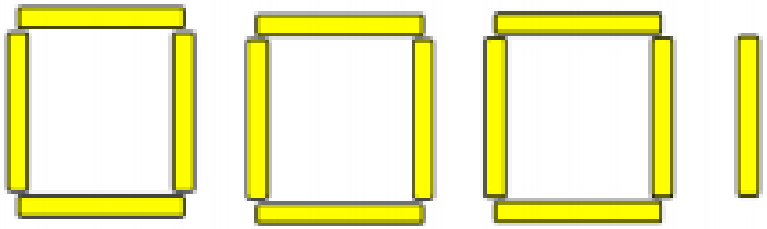

Use this method to see how many triangles you can make with 38 lollipop sticks.

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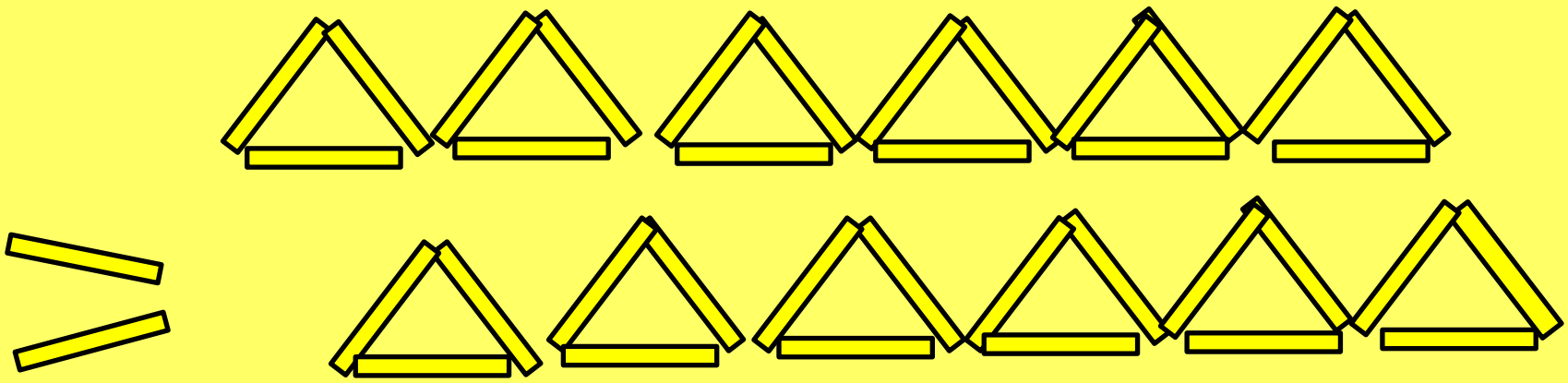
LO To divide 2 digits by 1 digit with a remainder

Answer - 12 triangles, remainder 2 sticks



LO To divide 2 digits by 1 digit with a remainder

Fluency

Now repeat the same method for the following:

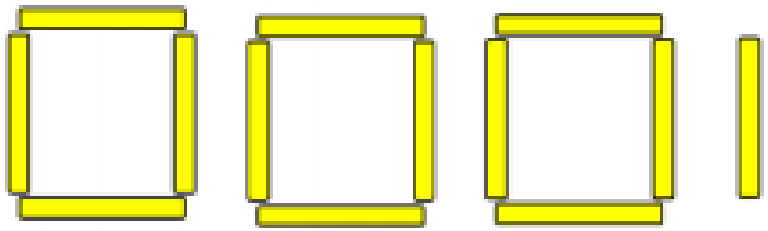
How many squares can you make with **37** ollipop sticks?

There are ___ lollipop sticks.

There are ___ groups of 4

There is ___ lollipop stick remaining.

37 ÷ 4 = ___ remainder ___

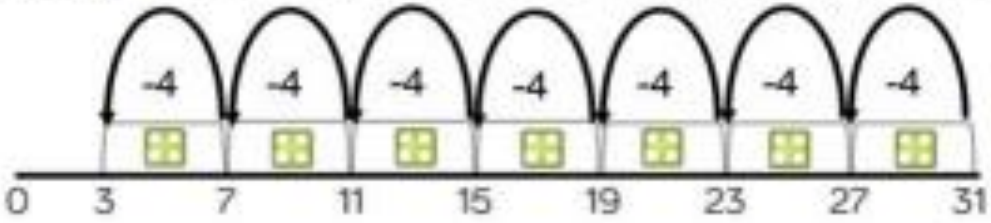


LO To divide 2 digits by 1 digit with a remainder

Previous question's answer is 9 remainder 1

Fluency

Tommy uses repeated subtraction to solve 31 ÷ 4



$31 \div 4 = 7 \text{ r } 3$

Use Tommy's method to solve 38 divided by 3

LO To divide 2 digits by 1 digit with a remainder

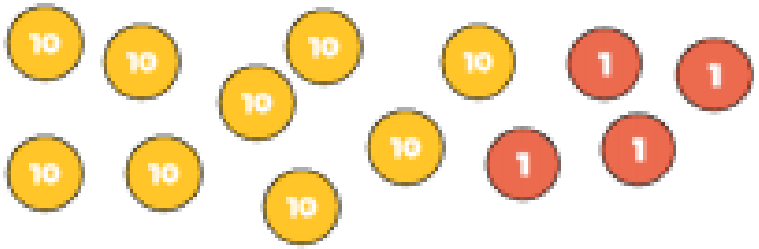
Previous question's answer is 12 remainder 2

Fluency

Use place value counters to work out 94 ÷ 4

Did you need to exchange any tens for ones?

Is there a remainder?



Tens	Ones

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Previous question's answer is 23 remainder 2

Reasoning

Which calculation is the odd one out?
Explain your thinking.

64 ÷ 8	77 ÷ 4
49 ÷ 6	65 ÷ 3

LO To divide 2 digits by 1 digit

Reasoning answer - how did you do?

64 ÷ 8 could be the odd one out as it is the only calculation without a remainder.

Make sure other answers are considered such as 65 ÷ 3 because it is the only one being divided by an odd number.

LO To divide 2 digits by 1 digit

Problem Solving

Jack has 15 stickers.

He sorts his stickers into equal groups but has some stickers remaining.
How many stickers could be in each group and how many stickers would be remaining?

Dora and Eva are planting bulbs.
They have 76 bulbs altogether.

Dora plants her bulbs in rows of 8 and has 4 left over.
Eva plants her bulbs in rows of 10 and has 2 left over.

How many bulbs do they each have?

LO To divide 2 digits by 1 digit

Problem Solving answers – how did you do?

There are many solutions, encourage a systematic approach.
e.g. 2 groups of 7, remainder 1
3 groups of 4, remainder 3
2 groups of 6, remainder 3

Dora has 44 bulbs.
Eva has 32 bulbs.