LO: To divide 2-digit numbers by 1-digit numbers 6.5.20

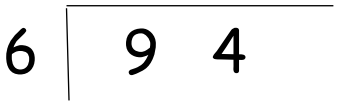
First, begin the lesson by completing a simulation of the year 4 multiplication test.

You have 25 random times table questions to answer and you are given 6 seconds to answer each one. Try not to use any times tables sheets/ resources to help you, we need to be fluent by now!

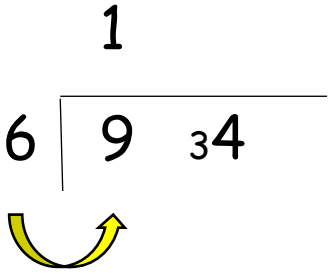
Lesson:

We are going to be dividing 2-digit numbers by 1-digit numbers using the bus stop method.

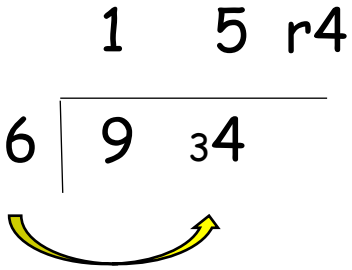
Remember what I taught you. The big number is a big bully, so he kicks the little number out the bus stop where he must stand in the rain. He keeps trying to get inside, so he approaches the three digits that make up the big number and asks them to let him in.



This question is 94 ÷ 6. 6 goes on the outside of the bus stop and 94 goes inside. First, we must work out how many times 6 goes into 9.



There is one group of 6 in 9, with 3 left over. So, we write 1 above the 9 and carry the 3 left over to the front of the 4.



Now we need to work out how many times 6 goes into 34.

6 x 5 is 30, so 6 must go into 34 five times leaving a remainder of 4.

We write the 5 above the bus stop and put r4 next to it to show 4 were left over.

94 ÷ 6 = 15 r4

Complete the divisions.

a) $47 \div 3 =$ ☐

b) $26 \div 5 =$ ☐

c) $89 \div 4 =$ ☐

d) $32 \div 5 =$ ☐

e) $49 \div 6 =$ ☐

f) $47 \div 4 =$ ☐

g) $74 \div 3 =$ ☐

h) $81 \div 7 =$ ☐

Dora has been working out some divisions.

$72 \div 4 = 18$
$73 \div 4 = 18$ r1
$74 \div 4 = 18$ r2
$75 \div 4 = 18$ r3

I know without working it out that $76 \div 4$ must be 18 r4

a) Why does Dora think this?

b) Explain why Dora is wrong.

Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.

a) Complete the division to work it out.

$\square \div \square = \square \text{ r } \square$

b) What does the remainder represent?
Talk about it with a partner.

c) Complete the sentence.

Annie can fill $\square$ boxes with $\square$ eggs left over.

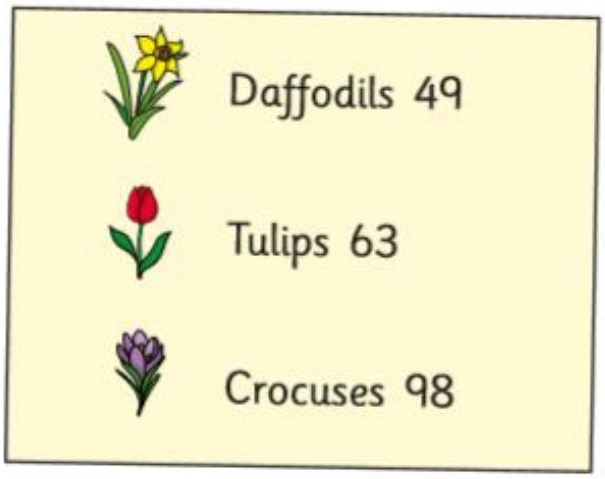
Challenges:

Jack- Any odd number you divide by 2 will have a remainder. True or false. Use a few examples to prove it.

Queen – To divide a number by 4, you can simply divide it by 2 then divide it by 2 again. True or false. Use a few examples to prove it.

Ace-

Jack has these bulbs.



Equal numbers of each bulb are put into 4 tubs.

How many of each bulb will be in each tub?

Daffodils ☐ Tulips ☐ Crocuses ☐

How many of each bulb will be left over?

Daffodils ☐ Tulips ☐ Crocuses ☐

How many tubs could Jack use so that there are no bulbs left over?