

Divide 2-digits by 1-digit (2)

- 1 Whitney is working out $49 \div 4$ using a place value chart.

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1

1

- a) Talk about Whitney's method with a partner.
b) Why is there one counter left over?

It is a remainder.

- c) Complete the division.

$$49 \div 4 = 12 \text{ r } 1$$

- d) Use place value counters to complete the divisions.

$$50 \div 4 = 12 \text{ r } 2 \qquad 51 \div 4 = 12 \text{ r } 3$$

What do you notice?

- 2 Complete the divisions.

$$\text{a) } 47 \div 3 = 15 \text{ r } 2$$

$$\text{b) } 26 \div 5 = 5 \text{ r } 1$$

$$\text{c) } 89 \div 4 = 22 \text{ r } 1$$

$$\text{d) } 32 \div 5 = 6 \text{ r } 2$$

$$\text{e) } 49 \div 6 = 8 \text{ r } 1$$

$$\text{f) } 47 \div 4 = 11 \text{ r } 3$$

$$\text{g) } 74 \div 3 = 24 \text{ r } 2$$

$$\text{h) } 81 \div 7 = 11 \text{ r } 4$$

- 3 Complete the divisions.

$$\text{a) } 36 \div 4 = 9$$

$$37 \div 4 = 9 \text{ r } 1$$

$$38 \div 4 = 9 \text{ r } 2$$

$$39 \div 4 = 9 \text{ r } 3$$

$$40 \div 4 = 10$$

$$\text{c) } 45 \div 3 = 15$$

$$46 \div 3 = 15 \text{ r } 1$$

$$47 \div 3 = 15 \text{ r } 2$$

$$48 \div 3 = 16$$

$$49 \div 3 = 16 \text{ r } 1$$

$$\text{b) } 70 \div 5 = 14$$

$$71 \div 5 = 14 \text{ r } 1$$

$$72 \div 5 = 14 \text{ r } 2$$

$$73 \div 5 = 14 \text{ r } 3$$

$$74 \div 5 = 14 \text{ r } 4$$

$$\text{d) } 92 \div 4 = 23$$

$$91 \div 4 = 22 \text{ r } 3$$

$$90 \div 4 = 22 \text{ r } 2$$

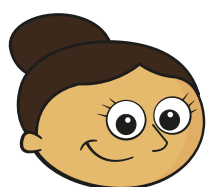
$$89 \div 4 = 22 \text{ r } 1$$

$$88 \div 4 = 22$$



- 4 Dora has been working out some divisions.

$$\begin{aligned}72 \div 4 &= 18 \\73 \div 4 &= 18 \text{ r}1 \\74 \div 4 &= 18 \text{ r}2 \\75 \div 4 &= 18 \text{ r}3\end{aligned}$$



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

- a) Why does Dora think this?

She has spotted a pattern.

- b) Explain why Dora is wrong.

You can't have a remainder of 4 when dividing by 4

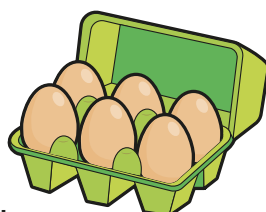
- 5 Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.

- a) Complete the division to work it out.

$$\boxed{75} \div \boxed{6} = \boxed{12} \text{ r } \boxed{3}$$



- b) What does the remainder represent?

Talk about it with a partner.

- c) Complete the sentence.

Annie can fill $\boxed{12}$ boxes with $\boxed{3}$ eggs left over.

- 6 Jack has these bulbs.

	Daffodils 49
	Tulips 63
	Crocuses 98

Equal numbers of each bulb are put into 4 tubs.

How many of each bulb will be in each tub?

Daffodils $\boxed{12}$ Tulips $\boxed{15}$ Crocuses $\boxed{24}$

How many of each bulb will be left over?

Daffodils $\boxed{1}$ Tulips $\boxed{3}$ Crocuses $\boxed{2}$

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