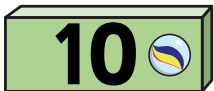






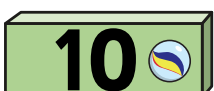




Multiply 2-digits by 1-digit (1)



- 1 Ron, Eva and Mo each have 23 marbles.

Tens	Ones
 	  
 	  
 	  

How many marbles are there in total?

$$3 \times 3 \text{ ones} = \boxed{9}$$













$$3 \times 2 \text{ tens} = \boxed{60}$$

$$\boxed{9} + \boxed{60} = \boxed{69}$$

$$3 \times 23 = \boxed{69}$$

There are $\boxed{69}$ marbles in total.

- 2 Use the place value chart to work out 2×24
Complete the multiplication sentences.















Tens	Ones
 	   
 	   

$$2 \times 4 = \boxed{8}$$

$$2 \times 20 = \boxed{40}$$

$$2 \times 24 = \boxed{48}$$

- 3 Annie works out $43 \times 2 = 86$

Tens	Ones
   	  
   	  

		T	O	
		4	3	
	x		2	
		8	6	

Talk about Annie's methods with a partner.

What is the same? What is different?

- 4 Complete the multiplications.

a)

		T	O	
		2	4	
	x		2	
		4	8	

b)

		T	O	
		4	4	
	x		2	
		8	8	

c) 31×3

		T	O	
		3	1	
	x		3	
		9	3	

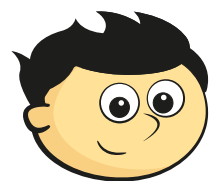
d) 42×2

		T	O	
		4	2	
	x		2	
		8	4	

Compare answers with a partner.



- 5 Jack is trying to work out 34×2 using the column method.



I'm not sure what to do.

			2	
	x	3	4	

Show how Jack could improve his column method and work out the answer.

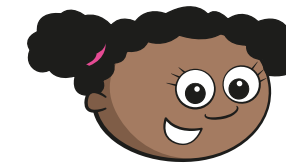
		3	4	
	x		2	
		6	8	

- 6 One toaster costs £32
How much do 3 toasters cost?



£96

- 7 Whitney has multiplied a 2-digit number by a 1-digit number.



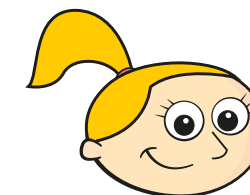
I had to do $30 + 9 = 39$ to get my answer.

What numbers is Whitney multiplying?

Fill in the missing digits.

		1	3	
	x		3	
		3	9	

- 8 Filip used the column method to work out 41×2



I can work this multiplication out in my head.

		4	1	
	x		2	

- a) How do you think Eva will work this out in her head?
b) Tick the multiplications that you can work out in your head. *Various answers.*

4×22

3×23

3×33

12×4

3×32

4×20



Multiply 2-digits by 1-digit

I Brett uses a place value chart to work out 5×32

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

A diagram illustrating the conversion of base ten blocks. On the left, a green circle labeled '100' is connected by a red arrow to a group of ten yellow circles, each labeled '10'. On the right, a yellow circle labeled '10' is connected by a red arrow to a group of ten red circles, each labeled '1'.

Talk about Brett's method with a partner.

Complete the multiplication.

$$5 \times 32 = 160$$

Use Brett's method to work out 6×34

$$6 \times 34 = 204$$

2 Rosie works out 4×37 using a written method.

[illegible]

Talk about Rosie's method with a partner.

Use Rosie's method to work out 6×28

[illegible]

3 Dani uses a different written method to work out 8×42

		H	T	O	
			4	2	
	x			8	
		3	3	6	
			1		

Talk about Dani's method with a partner.

$$\begin{array}{r} 27 \\ \times 3 \\ \hline 81 \\ \hline 2 \end{array}$$

a) $38 \times 6 = 228$ c) $45 \times 9 = 405$

[illegible]

b) $71 \times 3 = 213$ d) $52 \times 5 = 260$

[illegible]

e) $29 \times 8 =$ 232 f) $17 \times 4 =$ 68

£280

136

Multiply 3-digits by 1-digit

- 1 Filip uses a place value chart to help him multiply a 3-digit number by a 1-digit number.

Hundreds	Tens	Ones
100	10 10	1 1 1 1
100	10 10	1 1 1 1
100	10 10	1 1 1 1

- a) What multiplication is Filip working out?

$$124 \times 3$$

- b) What is the answer to Filip's multiplication?

$$372$$

- 2 Use place value counters to complete the multiplications.

a) $3 \times 213 =$ 639

d) $6 \times 106 =$ 636

b) $4 \times 216 =$ 864

e) $4 \times 209 =$ 836

c) $5 \times 106 =$ 530

f) $317 \times 3 =$ 951

- 3 Complete the multiplication.

Use the place value chart to help you.

H	T	O
100 100	10	1 1 1 1 1
100 100	10	1 1 1 1 1
100 100	10	1 1 1 1 1

		H	T	O	
		2	1	5	
	x			3	
		6	4	5	
			1		

- 4 Complete the multiplications.

a)

		H	T	O	
		2	1	7	
	x			4	
		8	6	8	
			2		

c)

		H	T	O	
		1	0	8	
	x			6	
		6	4	8	
			4		

b)

		H	T	O	
		4	3	9	
	x			2	
		8	7	8	
			1		

d) 163×5

		H	T	O	
		1	6	3	
	x			5	
		8	1	5	
		3	1		

e) 3×240

		H	T	O	
		2	4	0	
	x			3	
		7	2	0	
		1			

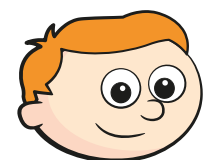
f) 7×131

		H	T	O	
		1	3	1	
	x			7	
		9	1	7	
		2			

- 5 A lorry driver travels 156 km per day.
How many kilometres will the lorry driver have travelled after 3 days?

468km

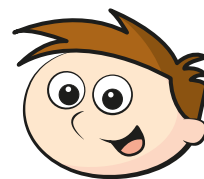
- 6 Ron and Teddy are working out 5×245



Ron

I know the answer will be greater than 1,000 because I know 5×200 is 1,000

I know the answer should end in 5 because I know 5×5 is 25



Teddy

- a) Who is correct? Circle your answer.

Ron

Teddy

both

neither

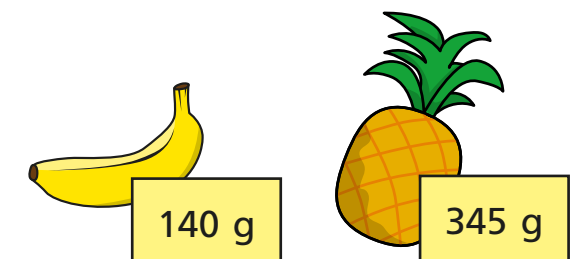
- b) Use a written method to work out 5×245

1,225

- 7 There are 7 year groups in a school.
There are 112 children in each year group.
How many children are there in the whole school?

784

- 8 A banana weighs 140 g
A pineapple weighs 345 g



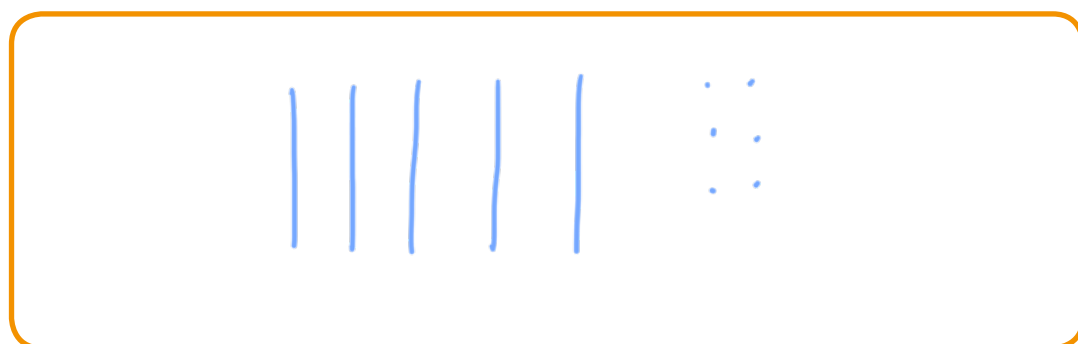
- Bag A contains 8 bananas and bag B contains 3 pineapples.
Which bag weighs more and by how much?
Show your working.

Bag A weighs 85 g more than bag B.

Divide 2-digits by 1-digit (2)

1 Rosie has 56 pencils.

a) Draw base 10 to represent the pencils.



Rosie shares the 56 pencils equally between 4 pots.

b) Draw base 10 on the place value grid to share the pencils.

Tens	Ones
	• • • •
	• • • •
	• • • •
	• • • •

c) How many pencils are in each pot?

14

d) Did you have to make an exchange?

2 Eva has this money.



She wants to share the money equally between 3 people.

a) Use the place value chart to show how Eva can share the money.

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

b) How much money does each person get?

£14

3 Divide 72 by 3



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

Use the place value counters to help you.

$$72 \div 3 = 24$$



4 Use base 10 or counters to work out the divisions.

a) $45 \div 3 =$ 15

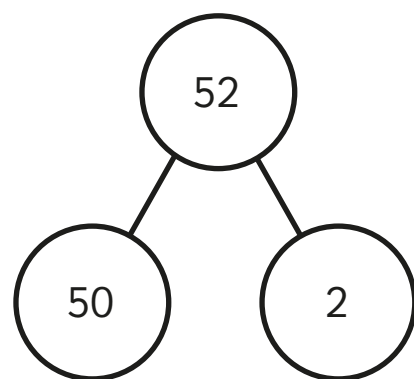
b) $57 \div 3 =$ 19

c) $92 \div 4 =$ 23

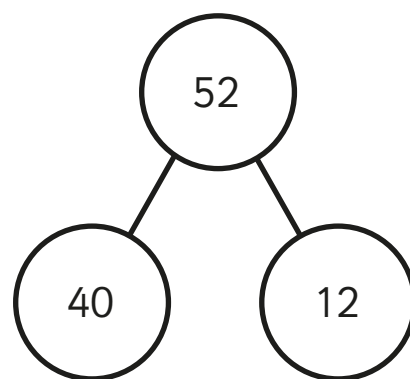
5 Rosie and Tommy are working out $52 \div 4$

They both use a part-whole model.

Rosie



Tommy



a) Whose part-whole model will help them with the division?

Tommy

How do you know?

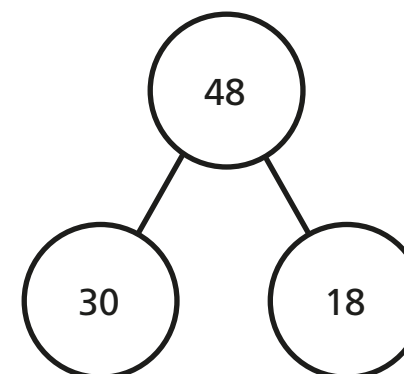
40 and 12 are both divisible by 4

b) Use a part-whole model to work out $52 \div 4$

13

6 Use the part-whole models to complete the divisions.

a) $48 \div 3 =$ 16

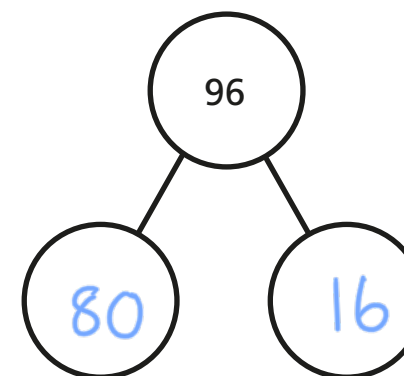


$30 \div 3 =$ 10

$18 \div 3 =$ 6

$48 \div 3 =$ 16

b) $96 \div 4 =$ 24



c) $65 \div 5 =$ 13

d) $75 \div 3 =$ 25

7 Here are 3 divisions.

$96 \div 8$

$96 \div 4$

$96 \div 2$

a) What is the same about the questions? What is different?

b) Complete the divisions.

$96 \div 8 =$ 12

$96 \div 4 =$ 24

$96 \div 2 =$ 48

c) What do you notice? Talk about it with a partner.

Divide 2-digits by 1-digit (1)

- 1 Rosie is working out $93 \div 3$ using a place value chart.

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

a) Talk about Rosie's method with a partner.

b) Complete the division.

$$93 \div 3 = \boxed{31}$$

- 2 Use place value counters to complete the divisions.

a) $66 \div 3 = \boxed{22}$

d) $48 \div 4 = \boxed{12}$

b) $86 \div 2 = \boxed{43}$

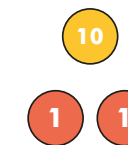
e) $\boxed{13} = 39 \div 3$

c) $50 \div 5 = \boxed{10}$

f) $84 \div 4 = \boxed{21}$

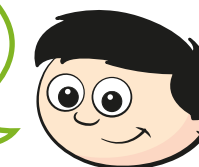
- 3 Dexter is working out $56 \div 4$ using a place value chart.

T	O
10	1
10	1
10	1
10	1



a)

I can't do it because I have counters left over.



Do you agree with Dexter? No

Explain your answer.

He can exchange 1 ten for 10 ones.

b) Work out $56 \div 4$ using place value counters.

$$56 \div 4 = \boxed{14}$$

- 4 Use place value counters to complete the divisions.

a) $72 \div 3 = \boxed{24}$

d) $48 \div 6 = \boxed{8}$

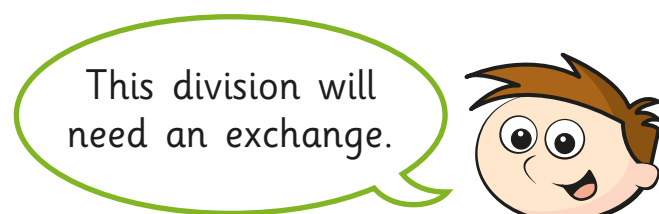
b) $92 \div 4 = \boxed{23}$

e) $\boxed{15} = 45 \div 3$

c) $65 \div 5 = \boxed{13}$

f) $64 \div 4 = \boxed{16}$

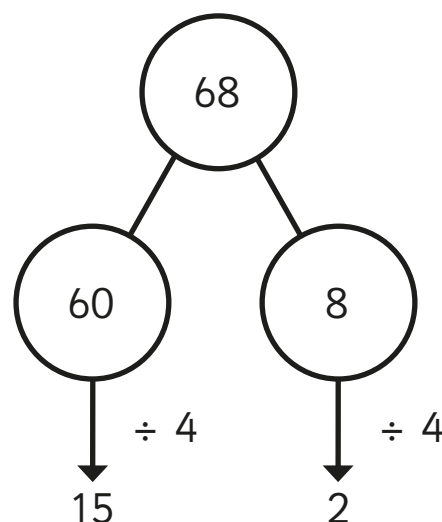
- 5 Teddy is working out $57 \div 3$



How does Teddy know this? Talk about it with a partner.



- 6 Amir is working out $68 \div 4$



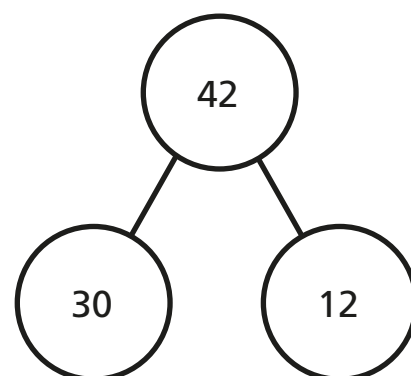
$$68 \div 4 = 17$$

Talk about Amir's method with a partner.

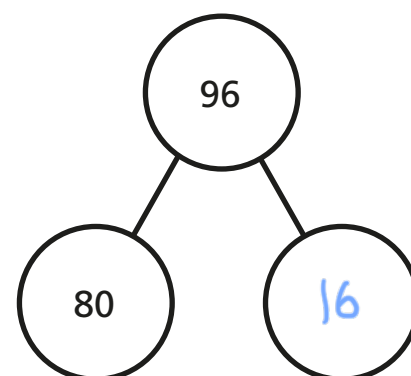


- 7 Use Amir's method to complete these calculations.

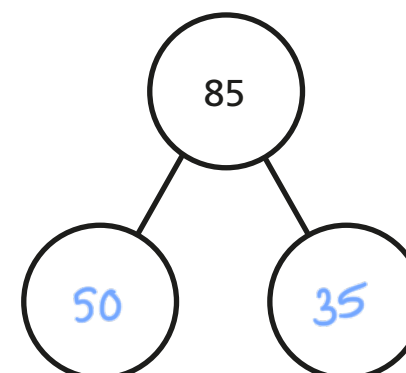
a) $42 \div 3 =$ 14



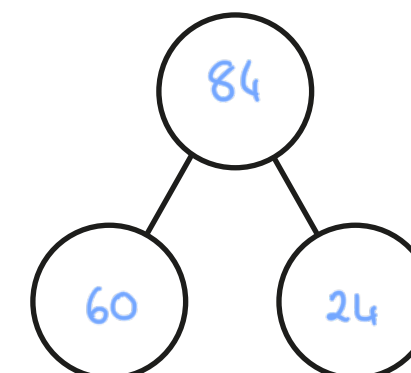
b) $96 \div 4 =$ 24



c) $85 \div 5 =$ 17



d) $84 \div 6 =$ 14



- 8 Kim has 92 beads.
She wants to share them equally between 4 friends.
How many beads will each friend get?

23

- 9 Write $<$, $>$ or $=$ to make the statements correct.

$96 \div 8$ = $72 \div 6$

$95 \div 5$ < $63 \div 3$

$51 \div 3$ > $64 \div 4$

$98 \div 7$ < $95 \div 5$

