

Multiply 2-digits by 2-digits

1 Complete the multiplications.

a) $6 \times 6 =$ 36

d) $7 \times 9 =$ 63

$6 \times 60 =$ 360

$7 \times 90 =$ 630

b) $12 \times 8 =$ 96

e) $21 \times 4 =$ 84

$12 \times 80 =$ 960

$21 \times 40 =$ 840

c) $32 \times 3 =$ 96

f) $48 \times 3 =$ 144

$32 \times 30 =$ 960

$48 \times 30 =$ 1,440

How did you work out your answers?



2 Fill in the missing numbers.

a)

			4	3	
	x		1	3	
			1	2	9
			4	3	0
			5	5	9

(43 × 3)

(43 × 10)

c)

			2	1	
	x		2	5	
			1	0	5
			4	2	0
			5	2	5

(21 × 5)

(21 × 20)

b)

			2	1	
	x		1	6	
			1	2	6
			2	1	0
			3	3	6

(21 × 6)

(21 × 10)

3 Mo is calculating 34×23

Here is his working.

		3	4
x		2	3
		1	0
		6	8
		1	7

What mistake has Mo made?

What is the correct answer?

You may use the blank grid for your workings.

		3	4		
x		2	3		
		1	0	2	
		6	8	0	
		7	8	2	

4 Work out the multiplications.

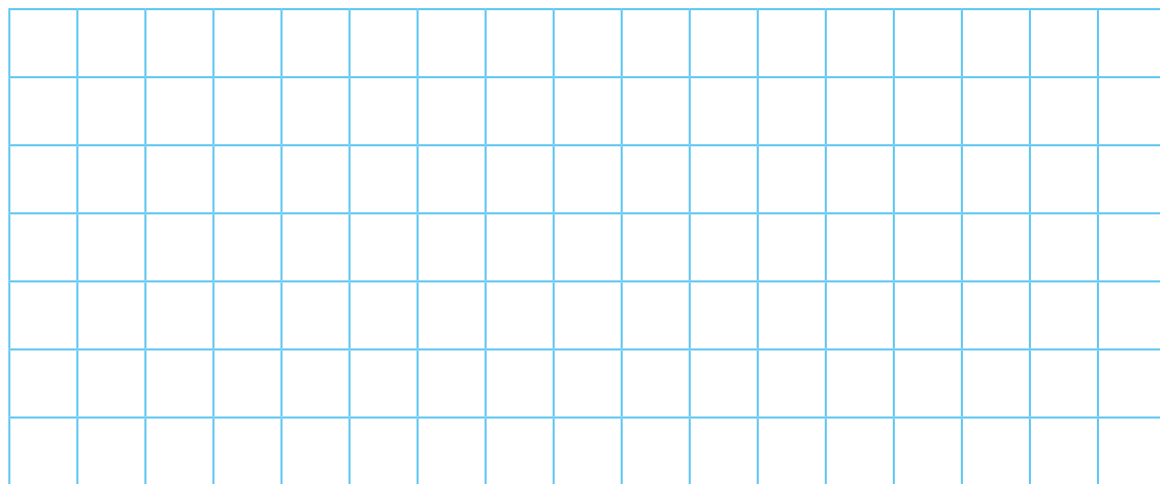
a) $52 \times 34 =$ 1,768

c) $46 \times 64 =$ 2,944



b) $22 \times 56 =$ 1,232

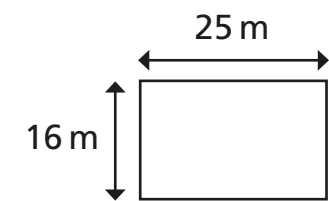
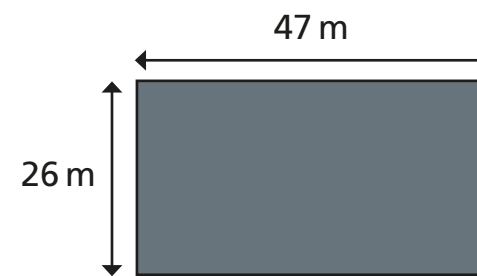
d) $47 \times 63 =$ 2,961



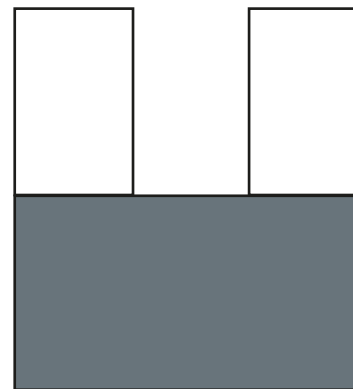
5 A machine prints 92 labels every minute.
How many labels will it print in three-quarters of an hour?

4,140

6 Here are two rectangles.



a) What is the area of this compound shape?



2,022m²

b) What is the area of the shaded part?



822m²

Compare methods and answers with a partner.
What is the same and what is different?



Multiply 3-digits by 2-digits

1 Complete the multiplications.

a) $13 \times 3 =$ 39

c) $25 \times 4 =$ 100

$13 \times 30 =$ 390

$25 \times 40 =$ 1,000

b) $130 \times 2 =$ 260

d) $204 \times 4 =$ 816

$130 \times 20 =$ 2,600

$204 \times 40 =$ 8,160

2 Complete the multiplications.

a)

			2	3	1	
	x			1	3	
			6	9	3	
			2	3	1	0
			3	0	0	3
			1	1		

(231×3)

(231×10)

b)

			5	1	2	
	x			2	4	
			2	0	4	8
			1	0	2	4
			1	2	2	8
			1	2	2	8

(512×4)

(512×20)

3 Brett is calculating 216×23

	2	1	6
x		2	3
<hr/>			
6	4	8	0
<hr/>			
	4	3	2
<hr/>			
6	9	1	2

What mistake has Brett made?

What is the correct answer?

4,968

4 Complete the multiplications.

a) $142 \times 31 =$ 4,402

c) $214 \times 53 =$ 11,342

b) $337 \times 46 =$ 15,502

d) $24 \times 183 =$ 4,392

5 Some children are asked to work out 308×19

a) Which is the best estimate to use to check their answers?

Circle your choice and work out the answer to your estimate.

300×10

300×20

310×20

300×19

estimate answer = $6,200$

b) Explain the reasons for your choice.

c) Here are answers given by three children.

Nijah

28,028

Filip

5,852

Whitney

2,080

From your estimate, who do you think is correct? Filip

d) Work out the correct answer.

$5,852$

e) What mistakes might the others have made?

6 A football pitch is 128 m long and 52 m wide.

a) What is the area of the pitch?

$6,656 \text{ m}^2$

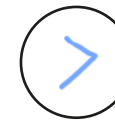
b) A field is $25,000 \text{ m}^2$.

How many football pitches could fit in it?

3

7 Write $>$, $<$ or $=$ to complete each statement.

146×64



164×46

135×53



153×35

b) What do you notice?

Does this always happen?

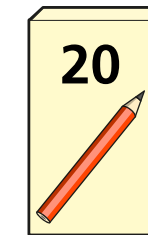
8 Miss Rose is ordering some pencils.

She orders 17 of pack A, 14 of pack B and 4 of pack C.

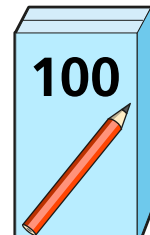
Pack A



Pack B



Pack C



How many pencils does Miss Rose order?

697

Each pencil costs 16p.

How much does Miss Rose spend on pencils?

$\text{£}111.52$

Question	Answer																																																																																																																																																																								
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Y5 – Spring – Block 1 – Multiply 4-digits by 2-digits – basic practice Answers (continued)

Question	Answer
3	a) 103,753 b) 75,555 c) 85,544 d) 208,026 e) 101,871 f) 189,140
4	453,924
5	a) £105,300 b) 27,000 c) E.g. The profit per shirt is £10, so work out $2,700 \times 10$
6	989,901 Possible methods include: using the column method to work out $9,999 \times 99$ working out $9,999 \times 100$ and subtracting 9,999 working out $10,000 \times 99$ and subtracting 99

Multiply 4-digits by 2-digits

1 Complete the multiplication.

			1	2	3	4	
	×				2	1	
			1	2	3	4	
		2	4	6	8	0	
		2	5	9	1	4	
				1			

$$(1,234 \times \boxed{1})$$

$$(1,234 \times \boxed{20})$$

2 Tommy is calculating $1,234 \times 26$

a) Complete his working out.

			1	2	3	4	
	×				2	6	
			7	4	0	4	
		2	4	6	8	0	
		3	2	0	8	4	
			1				

$$(\boxed{1,234} \times \boxed{6})$$

$$(\boxed{1,234} \times \boxed{20})$$

b) Fill in the grid to check Tommy's working is accurate.

You may use place value counters to help.

×	1,000	200	30	4
20	20,000	4,000	600	80
6	6,000	1,200	180	24



3 Rosie is calculating $2,541 \times 42$
Here is Rosie's working.

	2	5	4	1	
×			4	2	
	4	0	8	2	(2,541 × 2)
	8	0	6	4	(2,541 × 40)
	1	2	1	4	6

a) Rosie has made two mistakes. What are they?

She hasn't correctly exchanged.
She has multiplied by 4 not 40

b) What is the correct answer?

106,722

4 Work out the multiplications.

a) $4,284 \times 23$

b) $2,142 \times 46$

		4	2	8	4									
×				2	3									
1	2	8	5	2										
8	5	6	8	0										
9	8	5	3	2										

		2	1	4	2									
×				4	6									
1	2	8	5	2										
8	5	6	8	0										
9	8	5	3	2										

What do you notice?



- 5 A machine makes 2,734 boxes every hour.
The machine works for 3 hours each day.
a) How many boxes will it make in 12 days?

98,424

- b) Compare methods with a partner. Were there any other ways you could have worked out the answer?



- 6 Work out $378 \times 7 \times 12$
Show your method clearly.

31,752

7

1	2	3	4	5	6				

×

- a) Using all the digit cards, create 4 different calculations and work out the answer to each.

Various answers.

- b) Write your answers in ascending order.

- c) What is the smallest product that can be made?

32,544

- 8 Amir scores 4,680 points in a computer game for 12 games in a row.
Whitney scores 2,512 points every game for 24 games.

Who scores more points?

Whitney

Amir: 56,160

Whitney: 60,288

How many more?

4,128



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

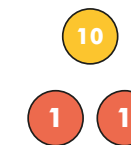
e) $\boxed{13} = 39 \div 3$

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

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

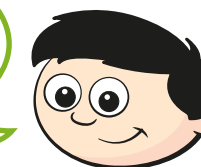
- 3 Dexter is working out $56 \div 4$ using a place value chart.

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

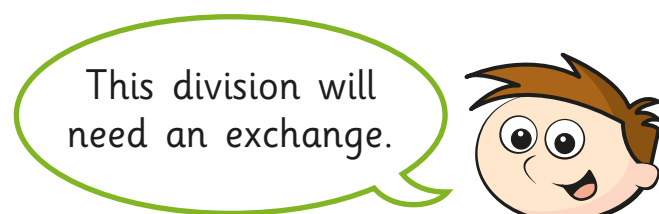
b) $92 \div 4 = \boxed{23}$

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

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

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

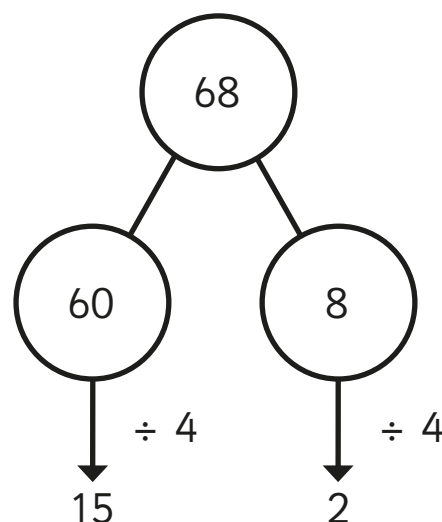
- 5 Teddy is working out $57 \div 3$



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



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



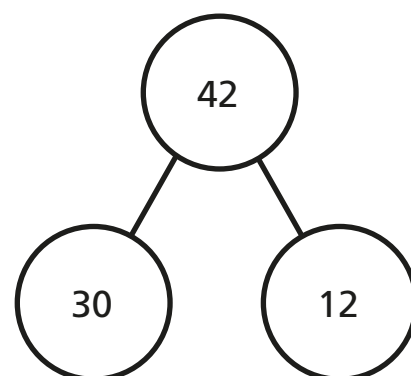
$$68 \div 4 = 17$$

Talk about Amir's method with a partner.

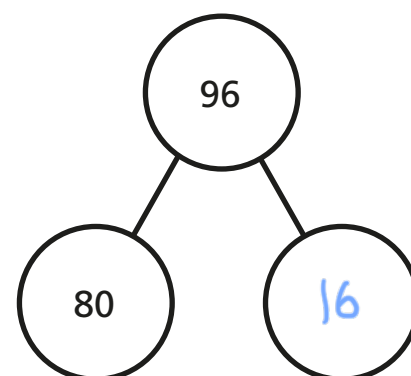


- 7 Use Amir's method to complete these calculations.

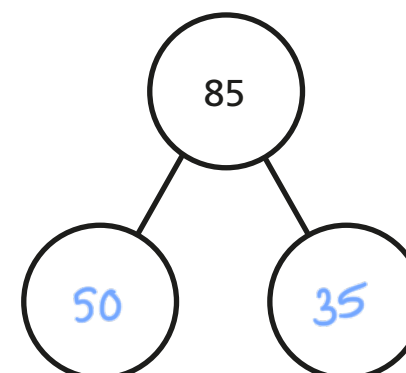
a) $42 \div 3 =$ 14



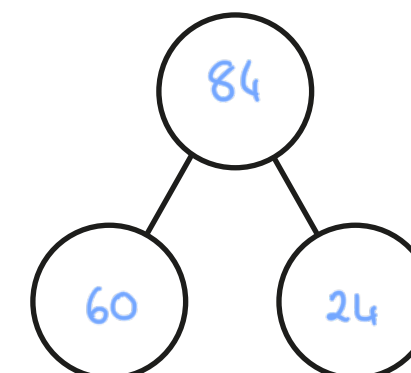
b) $96 \div 4 =$ 24



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.

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

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

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

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

