2-digit number Multiply up to a 4-digit number by a



$$3,257 \times 4 = 13,024$$

is wrong by looking at the ones digit. I know this

Is Eva correct? Talk about it with a partner.

2 ω 5 ω ഗ ق × 4 0 ω 6

> × 6 9

6 ∞

7

×

9

Complete the multiplications.

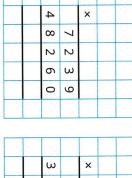
C

Write the correct multiplications to complete the calculations.

 $1,247 \times 37$

 $2,031 \times 29$

 $2,413 \times 23$



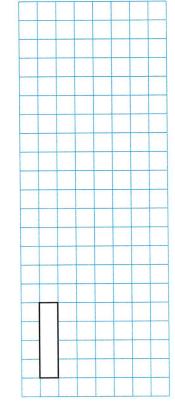
ω			
ω		×	
7	œ		
4	7		
_	2 9		
0	9		

	3		×	
	7	œ		
	4	7		
	_	2		
	0	9		
	4 0	_	×	
-	0	œ		
		N		

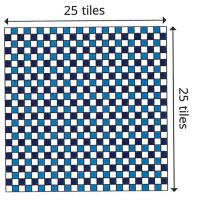
2

0 9

> A car park has 230 rows of 17 spaces. How many empty spaces are there? There are 1,250 cars already parked.



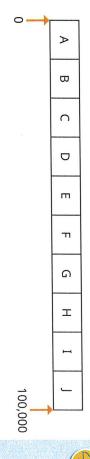
Mr Smith has tiled his kitchen floor.



Each tile costs 18p. How much does it cost to tile the floor?

		9				6
She does	doe	Rosie does 37 sit-up: Annie does 370 sit-u Who does more sit-u	b) What is the great	Find the product of your numbers.	a) Use all the digit cards to make 2-digit number.	Here are some digit cards.
more sit-ups.	does more sit-ups.	Rosie does 37 sit-ups every day for a year. Annie does 370 sit-ups every day in July. Who does more sit-ups and by how many?	What is the greatest odd product that can be made?	of your numbers.	2 3 6 5 ards to make a 3-digit number and a	cards.

(®
nens or pencils - one for each plauer.) This is an activity for two players. You need two different coloured



Use any five different digits to complete the multiplication.

×	
II	

Which letter interval does your answer lie in?

Colour the section on the track above.

Take it in turns with a partner to repeat the steps above.

The winner is the first person to colour three sections in $\boldsymbol{\alpha}$ row.

××) [] 	×	×	×	×	×



Solve problems with multiplication



Use the bar models to work out the multiplications.

a) $342 \times 12 =$

342

× 10 × 2

b) 21 × 514 = 514

× 10 × 10

c) $202 \times 43 =$

× 200 × N

43

d) A machine can pack 1,010 boxes each day.

There are 32 machines in a factory.

How many boxes can be packed in one day?

× 1,000 × 10

32

Eva is working out 32 × 19



32 by 20 and then I can multiply subtract 32

Use Eva's method to solve the problems.

a) 19 children are going on a school trip on the train. A train ticket costs £24

What is the total cost of the tickets?

b) A house is 4 m tall.

What is the height of the skyscraper? A skyscraper is 39 times the height of the house.



by 10 and then halve by 5, I can multiply my answer. To multiply

3

Use Tiny's method to work out the multiplications.

a) $64 \times 5 =$

c) $126 \times 5 =$

b) 5 × 286 =

d) $5 \times 2,052 =$

Fill in the missing numbers.

- **a)** $16 \times 6 = 8 \times 6 \times 10^{-6}$
- 90 16 × 6 =

- SO $6 \times 24 =$
- **c)** $36 \times 4 = 12 \times$
- SO $36 \times 4 =$
- Fill in the missing numbers. Use the factors to help work out the multiplications.

9 ∞ × ∞

> × 28 × II

C

- <u>b</u> ა თ 6 × × 12
- × × 25 × 25 11

<u>a</u>

6 Use factors to help you solve the problem. How many seats are there on 6 coaches? There are 44 seats on a coach.

How many different ways can you calculate 32 × 21?

Compare methods with a partner.

A laptop costs £199.99

What is the cost of 3 laptops?

× = 684

Complete the multiplication in as many different ways as you can.

Compare answers with a partner.





Short division



Work out the divisions mentally.

 $90 \div 3 =$

 $9,000 \div 3 =$

900 ÷ 3 =

Complete the divisions.

<u>o</u>

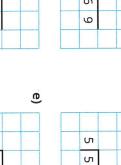


7

0

 ∞

5



<u>5</u>

 ∞

0 4 2

ω

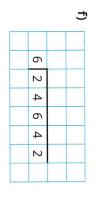
7

0

 ∞

2

7



0

4

 ∞

5

0

4

3 Match the divisions to the remainders.

ಕ

ュ

757 ÷ 4

 $756 \div 4$

 $756 \div 3$

 $756 \div 2$

 $758 \div 4$

756 ÷ 5

 $759 \div 4$

 $756 \div 6$

 $760 \div 4$

Complete the calculations.

c) Two thousand divided by eleven is equal to

d) 297 ÷ ။ ယ

	þ	L
į		

Work out the values of a, b, c and d.

a	
a	
a	
a	1,386
a	
a	
a	12

<i>a</i> =		
	1	

b	
b	
b	
b	
б	
ь	
b	
b	
ь	
	b b b b b b b

b =	

С	54
200,000	54
- V	
С	54
	54
С	(1)
1	54

11			
Γ			
l			
l			
l			
l			
L			

 $72 \times 24 = d \times 6$



6 Farm workers pick 18,451 strawberries over a year. How many full boxes can be made? Strawberries are sold in boxes of 8



There are 1,136 visitors at a theme park.

A ride can hold 7 people at a time.

visitors go on once? How many times will the ride need to go around so that all the

	11
THE STATE OF THE	
	19/10:

- Tommy is thinking of a number between 800 and 900
- He divides the number by 4 and there is a remainder of 1
- He divides the number by 5 and there is a remainder of 1
- He divides the number by 6 and there is a remainder of 1
- He divides the number by 7 and there is a remainder of 1

What is Tommy's number?

l	ı
1	1
ı	1
1	1
ı	1
1	1
ı	1
1	
	-

Work out the missing numbers.

	0		
		0	
		4	
		8	
			5
	4		
	9	2	
		4	
	ω	∞	
		ユ	
			0
	7	0	
	ω	9	
		_	
		r7	
-	-	+	-

Introduction to long division



Use these multiples of 13 to complete the long divisions.

3

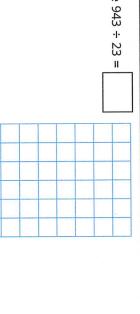
7	2
9	7
ω	ω
ū	<u> </u>
1 0 8	13 4
∞	4

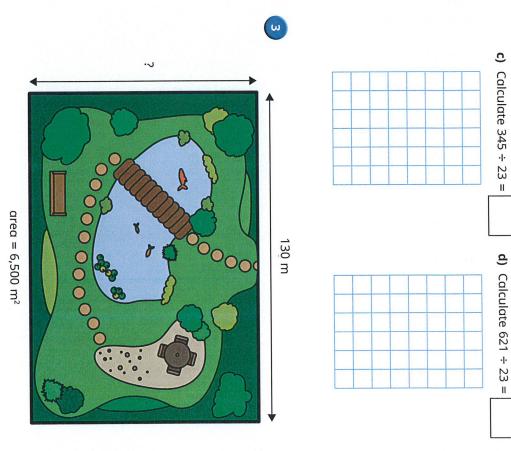
<u>ω</u>

a) Complete the number track with multiples of 23

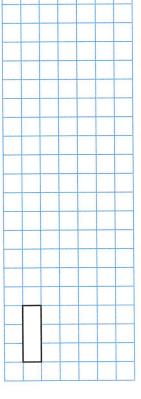
alculate	23
te 943	46
943 ÷ 23 =	69

b) Calculate 943





What is the width of the garden?



- Tick the cards that give the same answer.

$$2,730 \div 35$$

 $2,418 \div 31$

A bag holds 2.375 kg of guinea pig food.

One bag of food needs to last for 19 days.

How much food can the guinea pig have each day?

5 Amir is making flags. He sews 19 stars and 31 hearts onto each flag. He has 589 stars and 899 hearts.

How many flags can Amir complete?



 $75 = 6,600 \div$ $9,251 \div (= 29$

a) Complete the calculation.

168 × 5 = × 35

b) Describe two different ways to find the answer to part a).

Create your own problem like this for a partner.





Long division with remainders



Complete the number track with the multiples of 15

5

Use the multiples of 15 to complete the divisions.

15	15
9	7
4	0
6	0
15	15
15 7	15 1
7	_





complete this using long division, but it doesn't I am trying to seem to help.

	15	
<u> </u>	Ъ	0
ω	ω	0
0	6	

Look at Dexter's working.

What problem is he facing? Talk about it with a partner.





Work out the divisions.

a) 764 ÷ 14

b) 1,840 ÷ 18

A school has 380 pupils, 24 staff and 9 governors. Each table seats 12 people. Everyone is invited to a special meal.

a) How many tables are needed?

b) How did you work this out? Did you use the same method as your partner?



Tommy needs to buy 650 balloons for a festival.

Party Supplies



Fun Stores

How much would it cost to buy the balloons from each shop?

Party Supplies:

Fun Stores:

Ms Lee is printing the school newspaper. How many newspapers can Ms Lee print with Paper comes in packets of 250 sheets. Each newspaper needs 32 sheets of paper. 10 packets of paper?



8,200 lorries need to travel across the Channel from Dover to Calais. The ferry can transport 79 lorries in one journey.

How many journeys will it take to transport all 8,200 lorries?



a) What is the value of 💢?

b) What is the value of ??

