

Maths for week beginning 11th January

Please complete the daily work and send a copy/picture to your teacher.

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Monday

1x

1 x 1 = 1  
1 x 2 = 2  
1 x 3 = 3  
1 x 4 = 4  
1 x 5 = 5  
1 x 6 = 6  
1 x 7 = 7  
1 x 8 = 8  
1 x 9 = 9  
1 x 10 = 10

2x

2 x 1 = 2  
2 x 2 = 4  
2 x 3 = 6  
2 x 4 = 8  
2 x 5 = 10  
2 x 6 = 12  
2 x 7 = 14  
2 x 8 = 16  
2 x 9 = 18  
2 x 10 = 20

3x

3 x 1 = 3  
3 x 2 = 6  
3 x 3 = 9  
3 x 4 = 12  
3 x 5 = 15  
3 x 6 = 18  
3 x 7 = 21  
3 x 8 = 24  
3 x 9 = 27  
3 x 10 = 30

4x

4 x 1 = 4  
4 x 2 = 8  
4 x 3 = 12  
4 x 4 = 16  
4 x 5 = 20  
4 x 6 = 24  
4 x 7 = 28  
4 x 8 = 32  
4 x 9 = 36  
4 x 10 = 40

5x

5 x 1 = 5  
5 x 2 = 10  
5 x 3 = 15  
5 x 4 = 20  
5 x 5 = 25  
5 x 6 = 30  
5 x 7 = 35  
5 x 8 = 40  
5 x 9 = 45  
5 x 10 = 50

6x

6 x 1 = 6  
6 x 2 = 12  
6 x 3 = 18  
6 x 4 = 24  
6 x 5 = 30  
6 x 6 = 36  
6 x 7 = 42  
6 x 8 = 48  
6 x 9 = 54  
6 x 10 = 60

7x

7 x 1 = 7  
7 x 2 = 14  
7 x 3 = 21  
7 x 4 = 28  
7 x 5 = 35  
7 x 6 = 42  
7 x 7 = 49  
7 x 8 = 56  
7 x 9 = 63  
7 x 10 = 70

8x

8 x 1 = 8  
8 x 2 = 16  
8 x 3 = 24  
8 x 4 = 32  
8 x 5 = 40  
8 x 6 = 48  
8 x 7 = 56  
8 x 8 = 64  
8 x 9 = 72  
8 x 10 = 80

9x

9 x 1 = 9  
9 x 2 = 18  
9 x 3 = 27  
9 x 4 = 36  
9 x 5 = 45  
9 x 6 = 54  
9 x 7 = 63  
9 x 8 = 72  
9 x 9 = 81  
9 x 10 = 90

10x

10 x 1 = 10  
10 x 2 = 20  
10 x 3 = 30  
10 x 4 = 40  
10 x 5 = 50  
10 x 6 = 60  
10 x 7 = 70  
10 x 8 = 80  
10 x 9 = 90  
10 x 10 = 100

January

12 Times tables

$$12 \times 0 = 0$$

$$12 \times 1 = 12$$

$$12 \times 2 = 24$$

$$12 \times 3 = 36$$

$$12 \times 4 = 48$$

$$12 \times 5 = 60$$

$$12 \times 6 = 72$$

$$12 \times 7 = 84$$

$$12 \times 8 = 96$$

$$12 \times 9 = 108$$

$$12 \times 10 = 120$$

$$12 \times 11 = 132$$

$$12 \times 12 = 144$$

# Arithmetic

- 1) What is the area of a square with a side length of 6 cm?
- 2) What is  $24 \times 3$ ?
- 3) Find the sum of £1,250 and £3,940
- 4) Write down a 4-digit number with 3 in the hundreds column.



- 1) What is the area of a square with a side length of 6 cm?  $36 \text{ cm}^2$
- 2) What is  $24 \times 3$ ?  $72$
- 3) Find the sum of £1,250 and £3,940  $£5190$
- 4) Write down a 4-digit number with 3 in the hundreds column.  $\_ 3 \_ \_$

LO: To multiply 4 digits by 2 digits

Home learning video support if needed. Please click on link and watch video.

<https://www.youtube.com/watch?v=RVYwunbpMHA>

Step 1 ✓ Step 4 ✓  
Step 2 ✓ Step 5 ✓  
Step 3 ✓ Step 6 ✓

$$\begin{array}{r} 1324 \\ \times 46 \\ \hline 1944 \\ 12960 \\ \hline \end{array}$$

8:24

### Math Antics - Multi-Digit Multiplication Pt 2

4M views • 8 years ago



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Subtitles



## Strategy

### MULTIPLY BY 2-DIGIT #'s

Step 1: Multiply the top number by the ones digit

$$\begin{array}{r} 328 \\ \times 14 \\ \hline 1,312 \end{array}$$

Step 2: Put your place-holder zero


$$\begin{array}{r} 328 \\ \times 14 \\ \hline 1,312 \\ 0 \end{array}$$

Step 3: Multiply the top number by the tens digit

$$\begin{array}{r} 328 \\ \times 14 \\ \hline 1,312 \\ 3,280 \end{array}$$

Step 4: Add

$$\begin{array}{r} 328 \\ \times 14 \\ \hline 1,312 \\ + 3,280 \\ \hline 4,592 \end{array}$$

 Use  $<$ ,  $>$  or  $=$  to make the statements correct.

$4,458 \times 56$



$4,523 \times 54$

$4,458 \times 55$



$4,523 \times 54$

$4,458 \times 55$



$4,522 \times 54$

# Mathematical Talk

Explain the steps followed when using this multiplication method.

Look at the numbers in each question, can they help you estimate which answer will be the largest?

Explain why there is a 9 in the thousands column.

Why do we write the larger number above the smaller number?

What links can you see between these questions? How can you use these to support your answers?

# TASK

- 1 Complete the multiplication.

		1	2	3	4
×				2	1
		1	2	3	4
		2	4	6	8

$$(1,234 \times \square)$$

$$(1,234 \times \square)$$

- 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

$$(\square \times \square)$$

$$(\square \times \square)$$

- 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				
6				



- 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

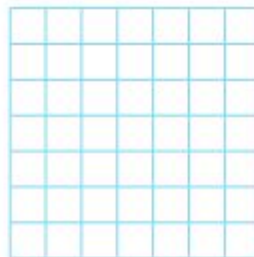
- a) Rosie has made two mistakes. What are they?

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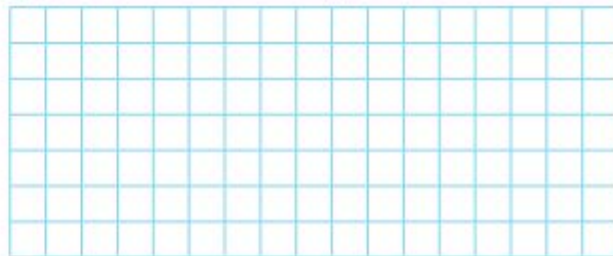
- b) What is the correct answer?




- 4 Work out the multiplications.

a)  $4,284 \times 23$

b)  $2,142 \times 46$



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?

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.

[illegible]

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- 

$$\begin{array}{r} \square \square \square \square \\ \times \quad \square \square \\ \hline \end{array}$$

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

- b) Write your answers in ascending order.

---

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

- 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?

How many more?

## Answers

1

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

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

$(1,234 \times 20)$

2

a) Complete his working out.

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

$$(1,234 \times 6)$$

$$(1,234 \times 20)$$

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

You may use place value counters to help.

x	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.

x	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)  $2,142 \times 46$ 

$$\begin{array}{r} 4284 \\ \times 23 \\ \hline 12852 \\ 85680 \\ \hline 98532 \end{array}$$

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

# Thinking Deeper

Can you spot and correct the errors in the calculation?

		2	5	3	4
×				2	3
		<sub>1</sub> 7	5	<sub>1</sub> 9	2
		<sub>1</sub> 5	0	6	8
	1	2	<sub>1</sub> 6	<sub>1</sub> 6	0



There are 2 errors.  
In the first line of working, the exchanged ten has not been added.  
In the second line of working, the place holder is missing.  
The correct answer should be 58,282

Tuesday

1x

1 x 1 = 1  
1 x 2 = 2  
1 x 3 = 3  
1 x 4 = 4  
1 x 5 = 5  
1 x 6 = 6  
1 x 7 = 7  
1 x 8 = 8  
1 x 9 = 9  
1 x 10 = 10

2x

2 x 1 = 2  
2 x 2 = 4  
2 x 3 = 6  
2 x 4 = 8  
2 x 5 = 10  
2 x 6 = 12  
2 x 7 = 14  
2 x 8 = 16  
2 x 9 = 18  
2 x 10 = 20

3x

3 x 1 = 3  
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3 x 3 = 9  
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4 x 7 = 28  
4 x 8 = 32  
4 x 9 = 36  
4 x 10 = 40

5x

5 x 1 = 5  
5 x 2 = 10  
5 x 3 = 15  
5 x 4 = 20  
5 x 5 = 25  
5 x 6 = 30  
5 x 7 = 35  
5 x 8 = 40  
5 x 9 = 45  
5 x 10 = 50

6x

6 x 1 = 6  
6 x 2 = 12  
6 x 3 = 18  
6 x 4 = 24  
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6 x 6 = 36  
6 x 7 = 42  
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7x

7 x 1 = 7  
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7 x 6 = 42  
7 x 7 = 49  
7 x 8 = 56  
7 x 9 = 63  
7 x 10 = 70

8x

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8 x 6 = 48  
8 x 7 = 56  
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9x

9 x 1 = 9  
9 x 2 = 18  
9 x 3 = 27  
9 x 4 = 36  
9 x 5 = 45  
9 x 6 = 54  
9 x 7 = 63  
9 x 8 = 72  
9 x 9 = 81  
9 x 10 = 90

10x

10 x 1 = 10  
10 x 2 = 20  
10 x 3 = 30  
10 x 4 = 40  
10 x 5 = 50  
10 x 6 = 60  
10 x 7 = 70  
10 x 8 = 80  
10 x 9 = 90  
10 x 10 = 100

January

12 Times tables

$$12 \times 0 = 0$$

$$12 \times 1 = 12$$

$$12 \times 2 = 24$$

$$12 \times 3 = 36$$

$$12 \times 4 = 48$$

$$12 \times 5 = 60$$

$$12 \times 6 = 72$$

$$12 \times 7 = 84$$

$$12 \times 8 = 96$$

$$12 \times 9 = 108$$

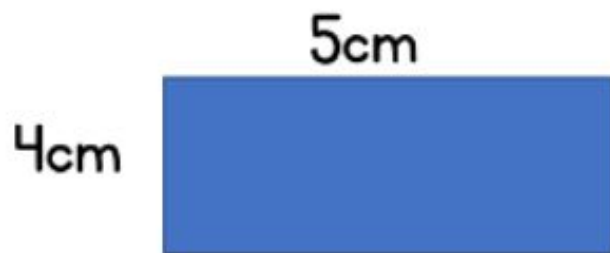
$$12 \times 10 = 120$$

$$12 \times 11 = 132$$

$$12 \times 12 = 144$$

1) What is  $253 \times 3$ ?

2) Work out the area of the rectangle



3) What is  $10^2$ ?

4) What is 100 more than 9,308?

1) What is  $253 \times 3$ ? 759

2) Work out the area of the rectangle



3) What is  $10^2$ ? 100

4) What is 100 more than 9,308? 9408

LO: Divide 2-digits by 1-digit (1)



Please watch video for support <https://vimeo.com/488870720>





# Division Strategies

equal groups

$$18 \div 6 = f$$



$$18 \div 6 = 3$$

arrays

$$18 \div 6 = 3 \text{ in each row}$$

rows



repeated subtraction

$$18 - 6 = 12$$

$$12 - 6 = 6$$

$$6 - 6 = 0$$

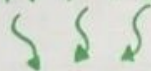
Subtract  
6 three  
times!

$$18 - 6 - 6 - 6 = 0$$

related facts

$$18 \div 6 = f$$

SWITCH!



$$6 \times \underline{3} = 18$$



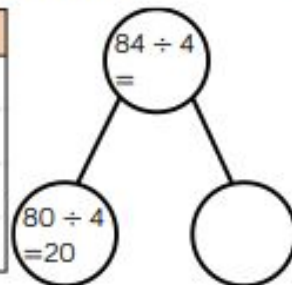
Jack is dividing 84 by 4 using place value counters.



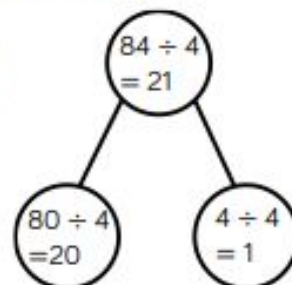
First, he divides the tens.

Then, he divides the ones.

Tens	Ones
10	
10	
10	
10	



Tens	Ones
10	1
10	1
10	1
10	1



Use Jack's method to calculate:

$$69 \div 3$$

$$88 \div 4$$

$$96 \div 3$$

## Mathematical Talk

How can we partition 84?

How many rows do we need to share equally between?

If I cannot share the tens equally, what do I need to do?

How many ones will I have after exchanging the tens?

If we know  $96 \div 4 = 24$ , what will  $96 \div 8$  be?

What will  $96 \div 2$  be? Can you spot a pattern?

Dora is calculating  $72 \div 3$

Before she starts, she says the calculation will involve an exchange.

Do you agree?

Explain why.






Dora is calculating  $72 \div 3$   
Before she starts, she says the  
calculation will involve an exchange.

Do you agree?  
Explain why.

Dora is correct  
because 70 is not a  
multiple of 3 so  
when you divide 7  
tens between 3  
groups there will be  
one remaining  
which will be  
exchanged.

# TASK

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

Tens	Ones
	
	
	

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

b) Complete the division.

$$93 \div 3 = \square$$

- 2 Use place value counters to complete the divisions.

a)  $66 \div 3 = \square$

d)  $48 \div 4 = \square$


b)  $86 \div 2 = \square$

e)  $\square = 39 \div 3$

c)  $50 \div 5 = \square$

f)  $84 \div 4 = \square$

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

T	O
	
	
	
	



a)

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



Do you agree with Dexter? \_\_\_\_\_

Explain your answer.

---



---

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

$$56 \div 4 = \square$$

- 4 Use place value counters to complete the divisions.

a)  $72 \div 3 = \square$

d)  $48 \div 6 = \square$

b)  $92 \div 4 = \square$

e)  $\square = 45 \div 3$

c)  $65 \div 5 = \square$

f)  $64 \div 4 = \square$

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

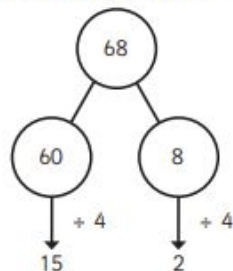
This division will need an exchange.



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



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



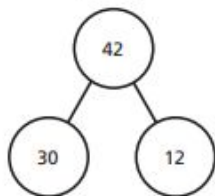
$$68 \div 4 = 17$$

Talk about Amir's method with a partner.

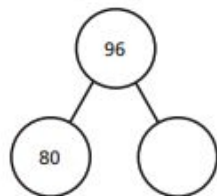


- 7 Use Amir's method to complete these calculations.

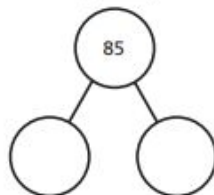
a)  $42 \div 3 = \square$



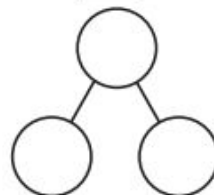
b)  $96 \div 4 = \square$



c)  $85 \div 5 = \square$



d)  $84 \div 6 = \square$



- 8 Kim has 92 beads.

She wants to share them equally between 4 friends.

How many beads will each friend get?

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

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

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

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

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



# Answers

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

Tens	Ones

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



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  $57 \div 3$

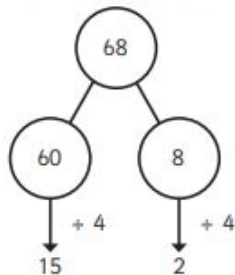
This division will need an exchange.



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



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



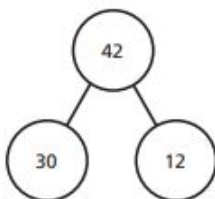
$$68 \div 4 = 17$$

Talk about Amir's method with a partner.

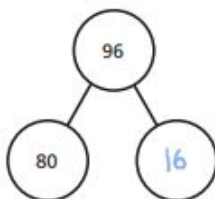


- 7 Use Amir's method to complete these calculations.

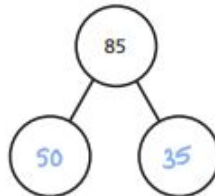
a)  $42 \div 3 =$  14



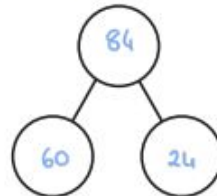
b)  $96 \div 4 =$  24



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.

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

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

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

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



Wednesday

# 1x

1	×	1	=	1
1	×	2	=	2
1	×	3	=	3
1	×	4	=	4
1	×	5	=	5
1	×	6	=	6
1	×	7	=	7
1	×	8	=	8
1	×	9	=	9
1	×	10	=	10

# 2x

2	×	1	=	2
2	×	2	=	4
2	×	3	=	6
2	×	4	=	8
2	×	5	=	10
2	×	6	=	12
2	×	7	=	14
2	×	8	=	16
2	×	9	=	18
2	×	10	=	20

# 3x

3	×	1	=	3
3	×	2	=	6
3	×	3	=	9
3	×	4	=	12
3	×	5	=	15
3	×	6	=	18
3	×	7	=	21
3	×	8	=	24
3	×	9	=	27
3	×	10	=	30

# 4x

4	×	1	=	4
4	×	2	=	8
4	×	3	=	12
4	×	4	=	16
4	×	5	=	20
4	×	6	=	24
4	×	7	=	28
4	×	8	=	32
4	×	9	=	36
4	×	10	=	40

# 5x

5	×	1	=	5
5	×	2	=	10
5	×	3	=	15
5	×	4	=	20
5	×	5	=	25
5	×	6	=	30
5	×	7	=	35
5	×	8	=	40
5	×	9	=	45
5	×	10	=	50

# 6x

6	×	1	=	6
6	×	2	=	12
6	×	3	=	18
6	×	4	=	24
6	×	5	=	30
6	×	6	=	36
6	×	7	=	42
6	×	8	=	48
6	×	9	=	54
6	×	10	=	60

# 7x

7	×	1	=	7
7	×	2	=	14
7	×	3	=	21
7	×	4	=	28
7	×	5	=	35
7	×	6	=	42
7	×	7	=	49
7	×	8	=	56
7	×	9	=	63
7	×	10	=	70

# 8x

8	×	1	=	8
8	×	2	=	16
8	×	3	=	24
8	×	4	=	32
8	×	5	=	40
8	×	6	=	48
8	×	7	=	56
8	×	8	=	64
8	×	9	=	72
8	×	10	=	80

# 9x

9	×	1	=	9
9	×	2	=	18
9	×	3	=	27
9	×	4	=	36
9	×	5	=	45
9	×	6	=	54
9	×	7	=	63
9	×	8	=	72
9	×	9	=	81
9	×	10	=	90

# 10x

10	×	1	=	10
10	×	2	=	20
10	×	3	=	30
10	×	4	=	40
10	×	5	=	50
10	×	6	=	60
10	×	7	=	70
10	×	8	=	80
10	×	9	=	90
10	×	10	=	100

January

12 Times tables

$$12 \times 0 = 0$$

$$12 \times 1 = 12$$

$$12 \times 2 = 24$$

$$12 \times 3 = 36$$

$$12 \times 4 = 48$$

$$12 \times 5 = 60$$

$$12 \times 6 = 72$$

$$12 \times 7 = 84$$

$$12 \times 8 = 96$$

$$12 \times 9 = 108$$

$$12 \times 10 = 120$$

$$12 \times 11 = 132$$

$$12 \times 12 = 144$$

# Arithmetic

1) Multiply 374 kg by 6

2) What is the area of these two shapes?



3) Write down 2 factors of 20

4) Work out  $280 + 849$

1) Multiply 374 kg by 6      2,244 kg

2) What is the area of these two shapes?



$$A = 40 \text{ cm}^2$$

$$B = 28 \text{ cm}^2$$

3) Write down 2 factors of 20

Any two of 1, 2, 4, 5, 10, 20

4) Work out  $280 + 849$       1,129



LO: Divide 2-digits by 1-digit (2)

Watch video for support <https://vimeo.com/492054019>





# Division w/ Remainders

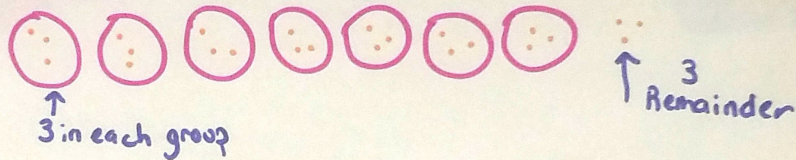
- remainder - the amount leftover after creating = groups w/  $\div$

$$\text{Ex. } 24 \div 7 = \boxed{3, 3}$$

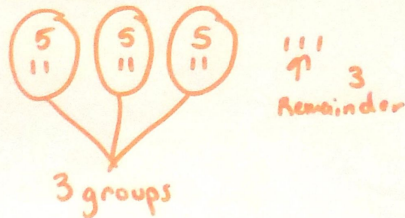
↑ Dividend  
Total

↑ # groups  
or how  
many in each  
group

SHARE To Find # in each group



Make groups of Divisor To Find # of groups







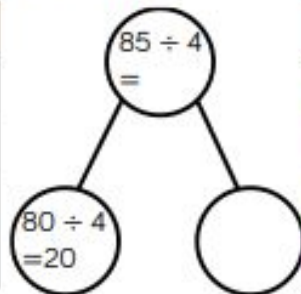
Teddy is dividing 85 by 4 using place value counters.



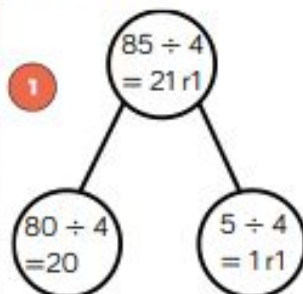
First, he divides the tens.

Then, he divides the ones.

Tens	Ones
10	
10	
10	
10	



Tens	Ones
10	1
10	1
10	1
10	1



Use Teddy's method to calculate:

$$86 \div 4$$

$$87 \div 4$$

$$88 \div 4$$

$$97 \div 3$$

$$98 \div 3$$

$$99 \div 3$$

## Mathematical Talk

If we are dividing by 3, what is the highest remainder we can have?

If we are dividing by 4, what is the highest remainder we can have?

Can we make a general rule comparing our divisor (the number we are dividing by) to our remainder?

Problem  
solving/reasoning

Rosie writes,  
 $85 \div 3 = 28 \text{ r } 1$

She says 85 must be 1 away from a  
multiple of 3

Do you agree?

37 sweets are shared between 4 friends.  
How many sweets are left over?

Four children attempt to solve this  
problem.

- Alex says it's 1
- Mo says it's 9
- Eva says it's  $9 \text{ r } 1$
- Jack says it's  $8 \text{ r } 5$

Can you explain who is correct and the  
mistakes other people have made?

Rosie writes,  
 $85 \div 3 = 28 \text{ r } 1$

She says 85 must be 1 away from a multiple of 3  
Do you agree?

I agree, remainder 1 means there is 1 left over. 85 is one more than 84 which is a multiple of 3

37 sweets are shared between 4 friends.  
How many sweets are left over?

Four children attempt to solve this problem.

- Alex says it's 1
- Mo says it's 9
- Eva says it's  $9 \text{ r } 1$
- Jack says it's  $8 \text{ r } 5$

Can you explain who is correct and the mistakes other people have made?

Alex is correct as there will be one remaining sweet.  
Mo has found how many sweets each friend will receive.  
Eva has written the answer to the calculation.  
Jack has found a remainder that is larger than the divisor so is incorrect.

- 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?

---

---

- c) Complete the division.

$$49 \div 4 = \boxed{\phantom{00}}$$

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

$$50 \div 4 = \boxed{\phantom{00}}$$

$$51 \div 4 = \boxed{\phantom{00}}$$

What do you notice?

- 2 Complete the divisions.

a)  $47 \div 3 = \boxed{\phantom{00}}$

e)  $49 \div 6 = \boxed{\phantom{00}}$

b)  $26 \div 5 = \boxed{\phantom{00}}$

f)  $47 \div 4 = \boxed{\phantom{00}}$

c)  $89 \div 4 = \boxed{\phantom{00}}$

g)  $74 \div 3 = \boxed{\phantom{00}}$

d)  $32 \div 5 = \boxed{\phantom{00}}$

h)  $81 \div 7 = \boxed{\phantom{00}}$

3

Complete the divisions.

a)  $36 \div 4 =$

$37 \div 4 =$

$38 \div 4 =$

$39 \div 4 =$

$40 \div 4 =$

b)  $70 \div 5 =$

$71 \div 5 =$

$72 \div 5 =$

$73 \div 5 =$

$74 \div 5 =$

c)  $45 \div 3 =$

$46 \div 3 =$

$47 \div 3 =$

$48 \div 3 =$

$49 \div 3 =$

d)  $92 \div 4 =$

$91 \div 4 =$

$90 \div 4 =$

$89 \div 4 =$

$88 \div 4 =$

- 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?

---

---

- b) Explain why Dora is wrong.

---

---

- 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.

$$\boxed{\phantom{00}} \div \boxed{\phantom{00}} = \boxed{\phantom{00}} \text{ r } \boxed{\phantom{00}}$$



- b) What does the remainder represent?

Talk about it with a partner.

- c) Complete the sentence.

Annie can fill  boxes with  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  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?



## 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.

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

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

What do you notice?

- 2 Complete the divisions.

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

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

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

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

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

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

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

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

- 3 Complete the divisions.

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

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

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

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

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

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

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

$$48 \div 3 = 16$$

$$40 \div 4 = 10$$

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

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

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

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

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

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

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

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

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

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

$$88 \div 4 = 22$$



- 4 Dora has been working out some divisions.

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



I know without working it out that  $76 \div 4$  must be  $18 \text{ r}4$

- 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?

Thursday

1x

1 x 1 = 1  
1 x 2 = 2  
1 x 3 = 3  
1 x 4 = 4  
1 x 5 = 5  
1 x 6 = 6  
1 x 7 = 7  
1 x 8 = 8  
1 x 9 = 9  
1 x 10 = 10

2x

2 x 1 = 2  
2 x 2 = 4  
2 x 3 = 6  
2 x 4 = 8  
2 x 5 = 10  
2 x 6 = 12  
2 x 7 = 14  
2 x 8 = 16  
2 x 9 = 18  
2 x 10 = 20

3x

3 x 1 = 3  
3 x 2 = 6  
3 x 3 = 9  
3 x 4 = 12  
3 x 5 = 15  
3 x 6 = 18  
3 x 7 = 21  
3 x 8 = 24  
3 x 9 = 27  
3 x 10 = 30

4x

4 x 1 = 4  
4 x 2 = 8  
4 x 3 = 12  
4 x 4 = 16  
4 x 5 = 20  
4 x 6 = 24  
4 x 7 = 28  
4 x 8 = 32  
4 x 9 = 36  
4 x 10 = 40

5x

5 x 1 = 5  
5 x 2 = 10  
5 x 3 = 15  
5 x 4 = 20  
5 x 5 = 25  
5 x 6 = 30  
5 x 7 = 35  
5 x 8 = 40  
5 x 9 = 45  
5 x 10 = 50

6x

6 x 1 = 6  
6 x 2 = 12  
6 x 3 = 18  
6 x 4 = 24  
6 x 5 = 30  
6 x 6 = 36  
6 x 7 = 42  
6 x 8 = 48  
6 x 9 = 54  
6 x 10 = 60

7x

7 x 1 = 7  
7 x 2 = 14  
7 x 3 = 21  
7 x 4 = 28  
7 x 5 = 35  
7 x 6 = 42  
7 x 7 = 49  
7 x 8 = 56  
7 x 9 = 63  
7 x 10 = 70

8x

8 x 1 = 8  
8 x 2 = 16  
8 x 3 = 24  
8 x 4 = 32  
8 x 5 = 40  
8 x 6 = 48  
8 x 7 = 56  
8 x 8 = 64  
8 x 9 = 72  
8 x 10 = 80

9x

9 x 1 = 9  
9 x 2 = 18  
9 x 3 = 27  
9 x 4 = 36  
9 x 5 = 45  
9 x 6 = 54  
9 x 7 = 63  
9 x 8 = 72  
9 x 9 = 81  
9 x 10 = 90

10x

10 x 1 = 10  
10 x 2 = 20  
10 x 3 = 30  
10 x 4 = 40  
10 x 5 = 50  
10 x 6 = 60  
10 x 7 = 70  
10 x 8 = 80  
10 x 9 = 90  
10 x 10 = 100

January

12 Times tables

$$12 \times 0 = 0$$

$$12 \times 1 = 12$$

$$12 \times 2 = 24$$

$$12 \times 3 = 36$$

$$12 \times 4 = 48$$

$$12 \times 5 = 60$$

$$12 \times 6 = 72$$

$$12 \times 7 = 84$$

$$12 \times 8 = 96$$

$$12 \times 9 = 108$$

$$12 \times 10 = 120$$

$$12 \times 11 = 132$$

$$12 \times 12 = 144$$

# ARITHMETIC

- 1) Multiply 1,305 by 6
- 2) A square has an area of  $64 \text{ m}^2$   
What is the length of one of its sides?
- 3) Which of these is a prime number?  
10, 11 and 15
- 4) Find the sum of 199 and 198

- 1) Multiply 1,305 by 6    7,830
- 2) A square has an area of  $64 \text{ m}^2$   
What is the length of one of its sides?    8 cm
- 3) Which of these is a prime number?    11  
10, 11 and 15
- 4) Find the sum of 199 and 198    397

LO: To divide 3 digits by 1 digit


















Watch video for support <https://vimeo.com/492054040>

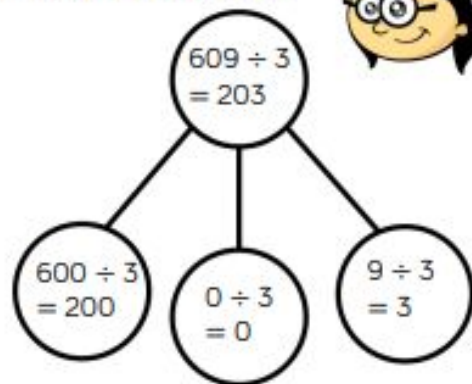




Annie is dividing 609 by 3 using place value counters.



Hundreds	Tens	Ones
 		  
 		  
 		  



Use Annie's method to calculate the divisions.

$$906 \div 3 \quad 884 \div 4 \quad 884 \div 8 \quad 489 \div 2$$

## Mathematical Talk

What is the same and what's different when we are dividing 3-digit number by a 1-digit number and a 2-digit number by a 1-digit number?

Do we need to partition 609 into three parts or could it just be partitioned into two parts?

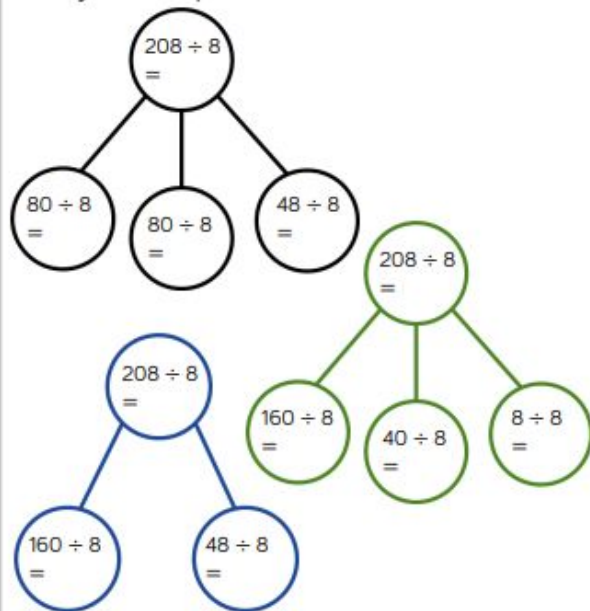
Can we partition the number in more than one way to support dividing more efficiently?

# Reasoning and Problem Solving

**R**

Dexter is calculating  $208 \div 8$  using part-whole models.

Can you complete each model?



How many part-whole models can you make to calculate  $132 \div 4$ ?

You have 12 counters and the place value grid. You must use all 12 counters to complete the following.

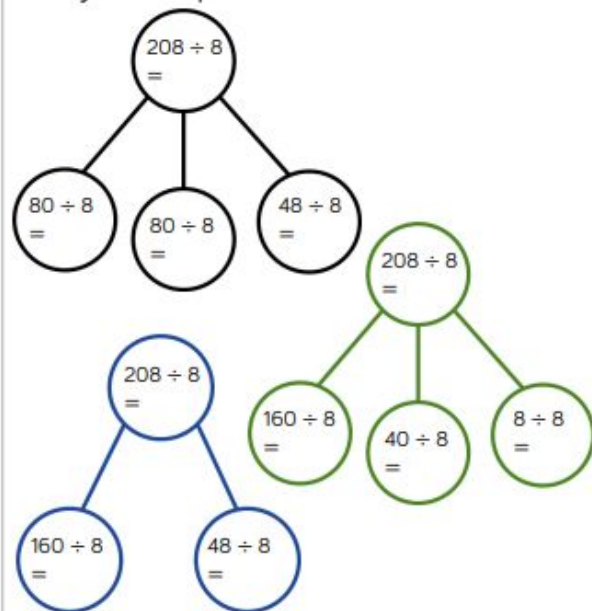
Hundreds	Tens	Ones



- Create a 3-digit number divisible by 2
- Create a 3-digit number divisible by 3
- Create a 3-digit number divisible by 4
- Create a 3-digit number divisible by 5
- Can you find a 3-digit number divisible by 6, 7, 8 or 9?

Dexter is calculating  $208 \div 8$  using part-whole models.

Can you complete each model?



How many part-whole models can you make to calculate  $132 \div 4$ ?

$$\begin{aligned} 208 \div 8 &= 26 \\ 80 \div 8 &= 10 \\ 48 \div 8 &= 6 \\ 160 \div 8 &= 20 \\ 40 \div 8 &= 5 \\ 8 \div 8 &= 1 \end{aligned}$$

Children can then make a range of part-whole models to calculate  $132 \div 4$

e.g.

$$\begin{aligned} 100 \div 4 &= 25 \\ 32 \div 4 &= 8 \end{aligned}$$

You have 12 counters and the place value grid. You must use all 12 counters to complete the following.

Hundreds	Tens	Ones



Create a 3-digit number divisible by 2  
 Create a 3-digit number divisible by 3  
 Create a 3-digit number divisible by 4  
 Create a 3-digit number divisible by 5  
 Can you find a 3-digit number divisible by 6, 7, 8 or 9?

2: Any even number

3: Any 3-digit number (as the digits add up to 12, a multiple of 3)

4: A number where the last two digits are a multiple of 4

5: Any number with 0 or 5 in the ones column.

Possible answers

6: Any even number

7: 714, 8: 840

9: Impossible

# TASK

- 1 Jack is working out  $844 \div 4$  using a place value chart.

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

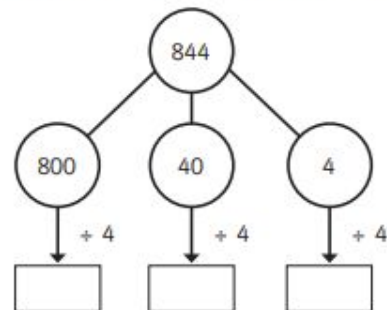
- a) Talk about Jack's method with a partner.  
b) Complete the division.

$$844 \div 4 = \boxed{\phantom{000}}$$

- 2 Use Jack's method to work out these divisions.

- a)  $525 \div 5 = \boxed{\phantom{000}}$       c)  $840 \div 8 = \boxed{\phantom{000}}$   
b)  $636 \div 6 = \boxed{\phantom{000}}$       d)  $903 \div 3 = \boxed{\phantom{000}}$

- 3 Eva is working out  $844 \div 4$  using a part-whole model.



Complete Eva's method.

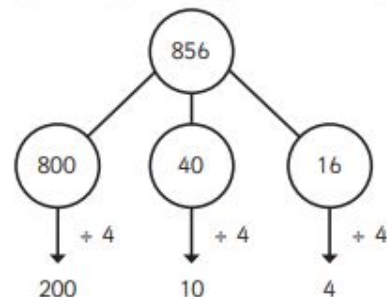
$$844 \div 4 = \boxed{\phantom{000}}$$

- 4 A ball of string is 848 cm long.

It is cut into 4 equal pieces.

What is the length of one piece of string?

- 5 Whitney is using flexible partitioning to divide a 3-digit number.



Could Whitney have partitioned her number another way?



Use Whitney's method to work out these divisions.

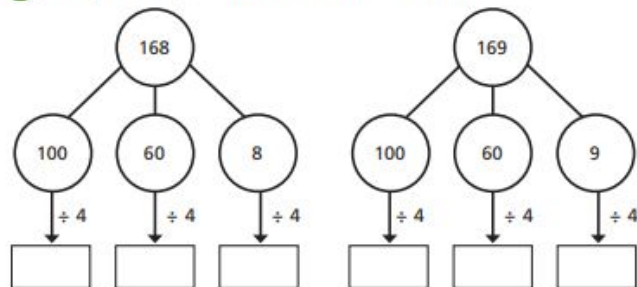
a)  $585 \div 5 =$

c)  $648 \div 4 =$

b)  $672 \div 6 =$

d)  $847 \div 7 =$

- 6 Complete the part-whole models and divisions.



$168 \div 4 =$

$169 \div 4 =$

What is the same and what is different about the calculations?

Talk about it with a partner.

- 7 Complete the divisions.

a)  $258 \div 6 =$

c)  $864 \div 4 =$

b)  $623 \div 5 =$

d)  $824 \div 3 =$

- 8 Eva has a piece of ribbon.



The ribbon measures 839 cm long.

How much ribbon would be left over if she cuts it into:

- a) 4 equal pieces

- b) 6 equal pieces

- c) 8 equal pieces

Can Eva cut the ribbon into equal pieces with no ribbon left over?

\_\_\_\_\_

Explain your answer.

- 9 Use 15 counters and a place value chart.

- a) Can you make a number that is divisible by 3? \_\_\_\_\_

- b) Can you make a number that has a remainder of 1 when divided by 3? \_\_\_\_\_

- c) Can you make a number that has a remainder of 2 when divided by 3? \_\_\_\_\_

What do you notice? Talk about your findings with a partner.

# ANSWERS

- 1 Jack is working out  $844 \div 4$  using a place value chart.

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

- a) Talk about Jack's method with a partner.  
b) Complete the division.

$$844 \div 4 = 211$$

- 2 Use Jack's method to work out these divisions.

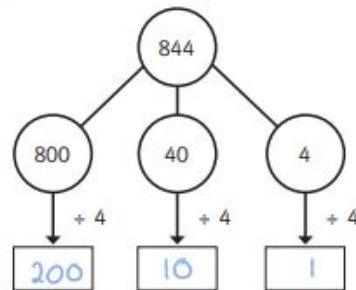
a)  $525 \div 5 = 105$

c)  $840 \div 8 = 105$

b)  $636 \div 6 = 106$

d)  $903 \div 3 = 301$

- 3 Eva is working out  $844 \div 4$  using a part-whole model.



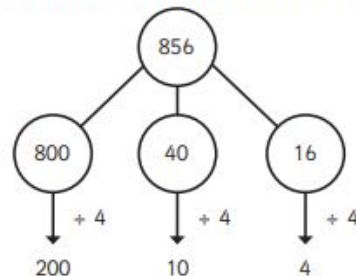
Complete Eva's method.

$$844 \div 4 = 211$$

- 4 A ball of string is 848 cm long.  
It is cut into 4 equal pieces.  
What is the length of one piece of string?

$$212 \text{ cm}$$

- 5 Whitney is using flexible partitioning to divide a 3-digit number.



Could Whitney have partitioned her number another way?



Use Whitney's method to work out these divisions.

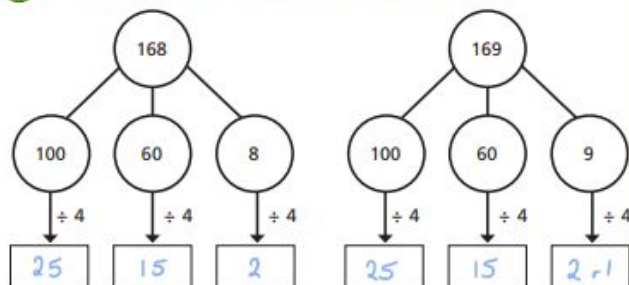
a)  $585 \div 5 =$  117

c)  $648 \div 4 =$  162

b)  $672 \div 6 =$  112

d)  $847 \div 7 =$  121

- 6 Complete the part-whole models and divisions.



$168 \div 4 =$  42

$169 \div 4 =$  42 r 1

What is the same and what is different about the calculations?

Talk about it with a partner.

- 7 Complete the divisions.

a)  $258 \div 6 =$  43

c)  $864 \div 4 =$  216

b)  $623 \div 5 =$  124 r 3

d)  $824 \div 3 =$  274 r 2



- 8 Eva has a piece of ribbon.



The ribbon measures 839 cm long.

How much ribbon would be left over if she cuts it into:

- a) 4 equal pieces

3 cm

- b) 6 equal pieces

5 cm

- c) 8 equal pieces

7 cm

Can Eva cut the ribbon into equal pieces with no ribbon left over?

Yes

Explain your answer. 839 pieces each 1 cm long.

- 9 Use 15 counters and a place value chart.

a) Can you make a number that is divisible by 3? yes

b) Can you make a number that has a remainder of 1 when divided by 3? no

c) Can you make a number that has a remainder of 2 when divided by 3? no

What do you notice? Talk about your findings with a partner.



Friday

1x

1 x 1 = 1  
1 x 2 = 2  
1 x 3 = 3  
1 x 4 = 4  
1 x 5 = 5  
1 x 6 = 6  
1 x 7 = 7  
1 x 8 = 8  
1 x 9 = 9  
1 x 10 = 10

2x

2 x 1 = 2  
2 x 2 = 4  
2 x 3 = 6  
2 x 4 = 8  
2 x 5 = 10  
2 x 6 = 12  
2 x 7 = 14  
2 x 8 = 16  
2 x 9 = 18  
2 x 10 = 20

3x

3 x 1 = 3  
3 x 2 = 6  
3 x 3 = 9  
3 x 4 = 12  
3 x 5 = 15  
3 x 6 = 18  
3 x 7 = 21  
3 x 8 = 24  
3 x 9 = 27  
3 x 10 = 30

4x

4 x 1 = 4  
4 x 2 = 8  
4 x 3 = 12  
4 x 4 = 16  
4 x 5 = 20  
4 x 6 = 24  
4 x 7 = 28  
4 x 8 = 32  
4 x 9 = 36  
4 x 10 = 40

5x

5 x 1 = 5  
5 x 2 = 10  
5 x 3 = 15  
5 x 4 = 20  
5 x 5 = 25  
5 x 6 = 30  
5 x 7 = 35  
5 x 8 = 40  
5 x 9 = 45  
5 x 10 = 50

6x

6 x 1 = 6  
6 x 2 = 12  
6 x 3 = 18  
6 x 4 = 24  
6 x 5 = 30  
6 x 6 = 36  
6 x 7 = 42  
6 x 8 = 48  
6 x 9 = 54  
6 x 10 = 60

7x

7 x 1 = 7  
7 x 2 = 14  
7 x 3 = 21  
7 x 4 = 28  
7 x 5 = 35  
7 x 6 = 42  
7 x 7 = 49  
7 x 8 = 56  
7 x 9 = 63  
7 x 10 = 70

8x

8 x 1 = 8  
8 x 2 = 16  
8 x 3 = 24  
8 x 4 = 32  
8 x 5 = 40  
8 x 6 = 48  
8 x 7 = 56  
8 x 8 = 64  
8 x 9 = 72  
8 x 10 = 80

9x

9 x 1 = 9  
9 x 2 = 18  
9 x 3 = 27  
9 x 4 = 36  
9 x 5 = 45  
9 x 6 = 54  
9 x 7 = 63  
9 x 8 = 72  
9 x 9 = 81  
9 x 10 = 90

10x

10 x 1 = 10  
10 x 2 = 20  
10 x 3 = 30  
10 x 4 = 40  
10 x 5 = 50  
10 x 6 = 60  
10 x 7 = 70  
10 x 8 = 80  
10 x 9 = 90  
10 x 10 = 100

January

12 Times tables

$$12 \times 0 = 0$$

$$12 \times 1 = 12$$

$$12 \times 2 = 24$$

$$12 \times 3 = 36$$

$$12 \times 4 = 48$$

$$12 \times 5 = 60$$

$$12 \times 6 = 72$$

$$12 \times 7 = 84$$

$$12 \times 8 = 96$$

$$12 \times 9 = 108$$

$$12 \times 10 = 120$$

$$12 \times 11 = 132$$

$$12 \times 12 = 144$$

## Arithmetic

Work out  $2,713 \times 8$

- 2) What is the perimeter of the square?

5 cm



- 3) What is  $5^2$  ?
- 4) Max saves £15. He spends £2.50 on a magazine.  
How much does he have left?

1) Work out  $2,713 \times 8$  **21,704**

2) What is the perimeter of the square?



3) What is  $5^2$  ? **25**

4) Max saves £15. He spends £2.50 on a magazine.  
How much does he have left? **£12.50**

LO: To divide 4 digits by 1 digit using short division (bus stop method)



Watch video for support <https://vimeo.com/492054136>



How many times  
does 3 go into 5?

It goes into 5 once  
and has a  
remainder of 2.

stop method.

$$57 \div 3 = 19$$

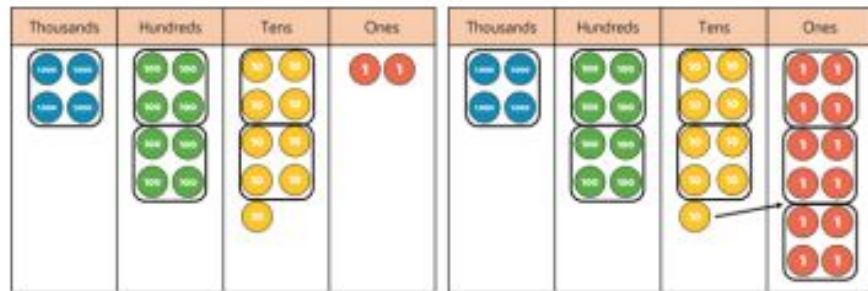
How many times  
does 3 go into 27?

It goes into 27  
nine times and has  
no remainder.

$$\begin{array}{r} 19 \\ 3 \overline{) 57} \end{array}$$



Here is a method to calculate 4,892 divided by 4 using place value counters and short division.



		1	2	2
4	4	8	9	2

Use this method to calculate:

$$6,610 \div 5$$

$$2,472 \div 3$$

$$9,360 \div 4$$

## Mathematical Talk

How many groups of 4 thousands are there in 4 thousands?

How many groups of 4 hundreds are there in 8 hundreds?

How many groups of 4 tens are there in 9 tens?

What can we do with the remaining ten?

How many groups of 4 ones are there in 12 ones?

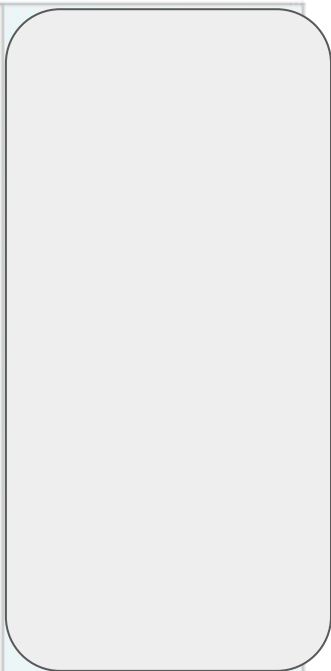
Do I need to solve both calculations to compare the divisions?

# Reasoning and Problem Solving

Jack is calculating  $2,240 \div 7$

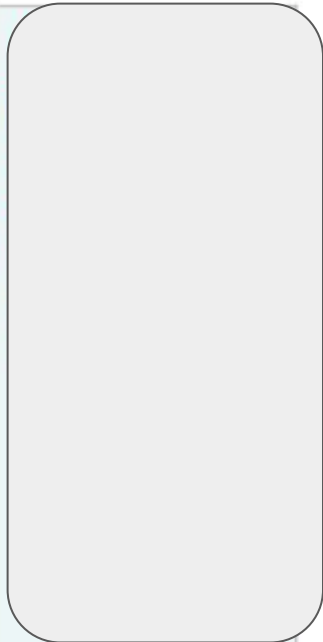
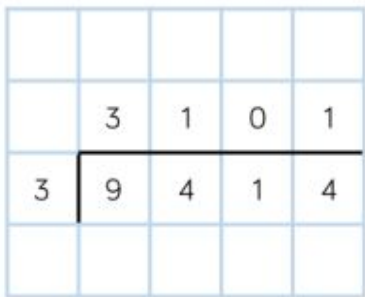
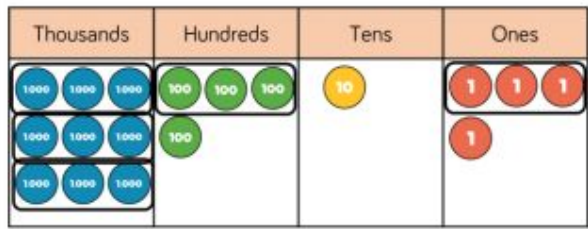
He says you can't do it because 7 is larger than all of the digits in the number.

Do you agree with Jack?  
Explain your answer.



## Spot the Mistake

Explain and correct the working.



# Reasoning and Problem Solving

Jack is calculating  $2,240 \div 7$

He says you can't do it because 7 is larger than all of the digits in the number.









Do you agree with Jack?  
Explain your answer.

Jack is incorrect. You can exchange between columns. You can't make a group of 7 thousands out of 2 thousand, but you can make groups of 7 hundreds out of 22 hundreds.

The answer is 320

## Spot the Mistake

Explain and correct the working.

Thousands	Hundreds	Tens	Ones
  	  		 

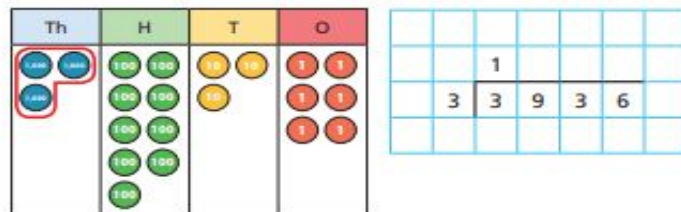
	3	1	0	1
3	9	4	1	4

There is no exchanging between columns within the calculation. The final answer should have been 3,138

# TASK

- 1 a) Circle the groups of 3 to help you complete the sentences and calculation.

The first step has been done for you.



There is 1 group of 3 thousands.

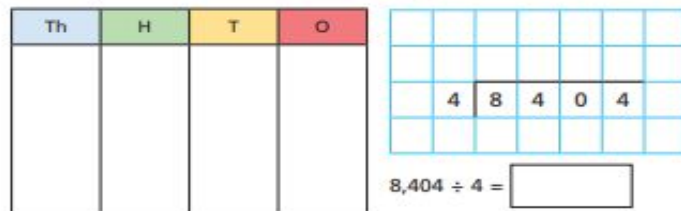
There are  groups of 3 hundreds.

There is  group of 3 tens.

There are  groups of 3 ones.

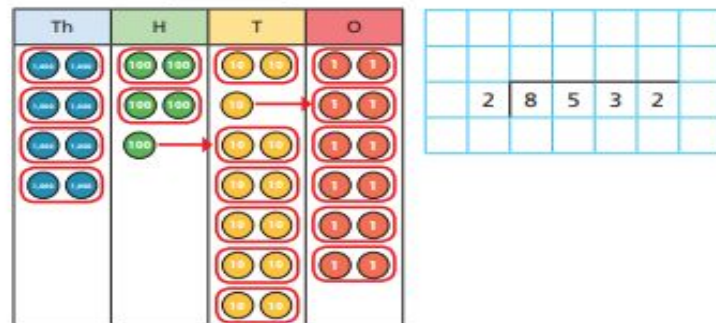
$$3,936 \div 3 = \boxed{\phantom{000}}$$

- b) Use the place value chart to work out  $8,404 \div 4$

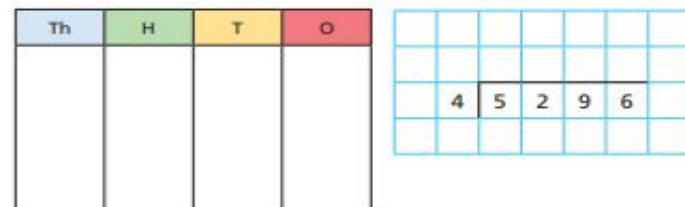


- 2 Use the place value charts to work out the divisions.

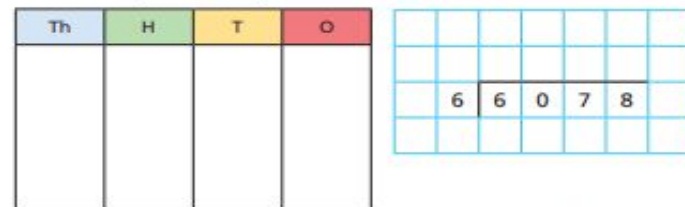
a)  $8,532 \div 2 = \boxed{\phantom{000}}$



b)  $5,296 \div 4 = \boxed{\phantom{000}}$



c)  $6,078 \div 6 = \boxed{\phantom{000}}$





3 Complete the divisions.

a)

	5	3	5	6	0		

d)

	6	9	7	8	6		

b)

	9	2	7	3	6		

e)

	3	4	6	8	3		

c)

	4	6	5	2	4		

f)

	1	2	0	7	9		

Could you have calculated the answer to part f) more efficiently?

4 Work out the values of  $a$ ,  $b$  and  $c$ .

9,415							
$a$	$a$	$a$	$a$	$a$	$a$	$a$	$a$

$$a = \boxed{\phantom{00}}$$

$b$	$b$	$b$	$b$	$b$	$b$	$b$	$b$
5,328							

$$b = \boxed{\phantom{00}}$$

120	120	120	120
$c$	$c$	$c$	$c$

$$c = \boxed{\phantom{00}}$$

5 Find the missing digits.

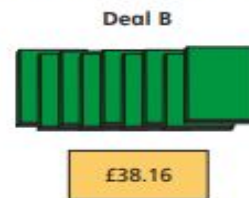
a)

		2	2		1
		8	9	6	

b)

		3		6	
		6	5		4

6 Books are available to buy in three different deals.



Which is the best deal?

Show your workings.

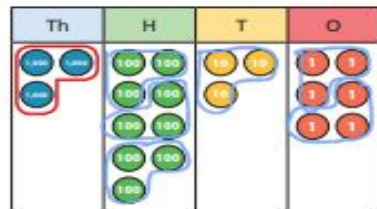
\_\_\_\_\_



# ANSWERS

- 1 a) Circle the groups of 3 to help you complete the sentences and calculation.

The first step has been done for you.



		1	3	1	2
3	3	9	3	6	

There is  group of 3 thousands.

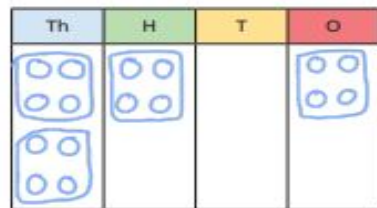
There are  groups of 3 hundreds.

There is  group of 3 tens.

There are  groups of 3 ones.

$$3,936 \div 3 = \boxed{1,312}$$

- b) Use the place value chart to work out  $8,404 \div 4$

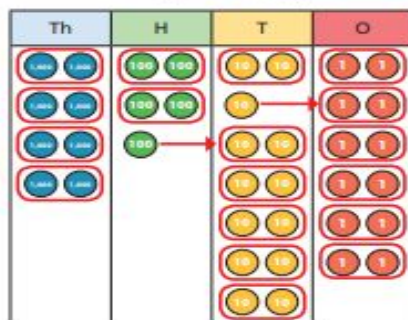


		2	1	0	1
4	8	4	0	4	

$$8,404 \div 4 = \boxed{2,101}$$

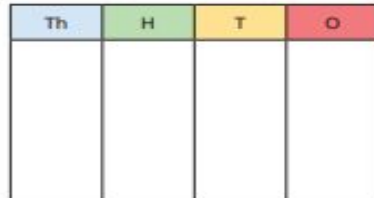
- 2 Use the place value charts to work out the divisions.

$$a) 8,532 \div 2 = \boxed{4,266}$$



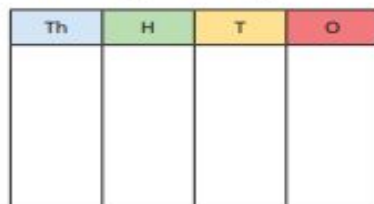
		4	2	6	6
2	8	5	3	2	

$$b) 5,296 \div 4 = \boxed{1,324}$$



		1	3	2	4
4	5	2	9	6	

$$c) 6,078 \div 6 = \boxed{1,013}$$



		1	0	1	3
6	6	0	7	8	

- 3 Complete the divisions.

a)

		0	7	1	2
5	3	5	6	0	

d)

		1	6	3	1
6	9	7	8	6	

b)

		0	3	0	4
9	2	7	3	6	

e)

		1	5	6	1
3	4	6	8	3	

c)

		1	6	3	1
4	6	5	2	4	

f)

		2	0	7	9
1	2	0	7	9	

Could you have calculated the answer to part f) more efficiently?

- 4 Work out the values of  $a$ ,  $b$  and  $c$ .

9,415						
$a$	$a$	$a$	$a$	$a$	$a$	$a$

$a = 1,345$

$b$	$b$	$b$	$b$	$b$	$b$	$b$	$b$
5,328							

$b = 666$

120	120	120	120
$c$	$c$	$c$	$c$

$c = 80$

- 5 Find the missing digits.

a)

		2	2	4	1
	4	8	9	6	4

b)

		3	2	6	2
	2	6	5	2	4

- 6 Books are available to buy in three different deals.

Deal A



£12.99

Deal B



£38.16

Deal C



£25.60

Which is the best deal?

Show your workings.

Deal B