

Maths Planning



Week Commencing: 4.1.20

Year Group: Year6

Times Table Rockstars website - <https://trockstars.com/>

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	CLOSED	CLOSED	LC: Can you multiply 2 digits by 1 digits?	LC: Can you multiply 3 digits by 1 digits?	LC Can you multiply 4 digits by 1 digits?
Activity			<p>Starter – if you haven't already accessed TTRS as your activity for this morning, you might like to spend 10 minutes on TTRS as a starter activity.</p> <p>Main Teaching</p> <p>Follow the link below to enable you to access the video for today's lesson.</p> <p>Remember, an adult will be available on live chat throughout if you need any support as you are working.</p> <p>Week 1 - Number: Multiplication & Division White Rose Maths</p> <p>You need to select the following video – Multiply 2 digits by 1 digit.</p>	<p>Starter – if you haven't already accessed TTRS as your activity for this morning, you might like to spend 10 minutes on TTRS as a starter activity.</p> <p>Main Teaching</p> <p>Follow the link below to enable you to access the video for today's lesson.</p> <p>Remember, an adult will be available on live chat throughout if you need any support as you are working.</p> <p>Week 1 - Number: Multiplication & Division White Rose Maths</p> <p>You need to select the following video – Multiply 3 digits by 1 digit.</p>	<p>Starter – if you haven't already accessed TTRS as your activity for this morning, you might like to spend 10 minutes on TTRS as a starter activity.</p> <p>Main Teaching</p> <p>Follow the link below to enable you to access the video for today's lesson.</p> <p>Remember, an adult will be available on live chat throughout if you need any support as you are working.</p> <p>Week 1 - Number: Multiplication & Division White Rose Maths</p> <p>You need to select the following video – Multiply 4 digits by 1 digit.</p>

			Resources – Worksheets and answers are attached or these can be downloaded directly from the home learning link on the website.	Resources – Worksheets and answers are attached or these can be downloaded directly from the home learning link on the website.	Resources – Worksheets and answers are attached or these can be downloaded directly from the home learning link on the website.
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Multiply 2-digits by 1-digit

- 1** 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

100

10

Talk about Brett's method with a partner.

Work out the multiplication.

5×32

Use Brett's method to work out 6×34

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

		H	T	O					
			3	7					
x				4					
		2	8		(7	x	4)		
	1	2	0		(3	0	x	4)	
	1	4	8						

Talk about Rosie's method with a partner.

Use Rosie's method to work out 6×28

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

		H	T	O
			4	2
	x			8
		<u>3</u>	<u>3</u>	<u>6</u>
			1	

Talk about Dani's method with a partner.

Use Dani's method to work out 3×27

- 4 Use a written method to complete the multiplications.

a) $38 \times 6 =$

d) $52 \times 5 =$

b) $71 \times 3 =$

e) $29 \times 8 =$

c) $45 \times 9 =$

f) $17 \times 4 =$

- 5 Class 4 is selling tickets for a play.

Tickets cost £5 per person.

56 tickets have been sold so far.

How much money has Class 4 collected?

- 6 Rosie buys 8 bunches of flowers. Each bunch has 17 flowers. How many flowers does she have altogether?

WEDNESDAY ANSWERS

Multiply 2-digits by 1-digit



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



Talk about Brett's method with a partner.

Complete the multiplication.

$$5 \times 32 = \boxed{160}$$

Use Brett's method to work out 6×34

$$6 \times 34 = \boxed{204}$$



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

		H	T	O			
			3	7			
	x			4			
			2	8		(7 x 4)	
		1	2	0		(30 x 4)	
		1	4	8			

Talk about Rosie's method with a partner.

Use Rosie's method to work out 6×28

		2	8				
	x		6				
		4	8		(8 x 6)		
		1	2	0	(20 x 6)		
		1	6	8			168

- 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.



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

- 2 Use place value counters to complete the multiplications.

- a) 3×213 d) 6×106
b) 4×216 e) 4×209
c) 5×106 f) 317×3

- 3 Complete the multiplication.

Use the place value chart to help you.

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

H	T	O
2	1	5
x		3

- 4 Work out the multiplications.

a)	b)	c)																																													
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x		2																																													
H	T	O																																													
1	0	8																																													
x		6																																													

- d) 163×5 e) 3×240 f) 7×131

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

- 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?

Ron Teddy both neither

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

Thursday Answers

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
			6	

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



Teddy

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

- 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



140 g



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.

Friday

Multiply 4-digits by 1-digit

- 1 Complete the sentences to describe the multiplication.

Th	H	T	O
1,000 1,000	100 100	10	1 1 1
1,000 1,000	100 100	10	1 1 1
1,000 1,000	100 100	10	1 1 1

There are ones altogether.

There are tens altogether.

There are hundreds altogether.

There are thousands altogether.

$$2,213 \times 3 = \boxed{}$$

- 2 Complete the multiplication.

Use a place value chart to help you.

		2	1	0	2
	x				4

- 3 A football stadium holds 2,214 people.
The stadium is full for 4 matches in a row.
What was the attendance for all 4 matches?



- 4 Nijah is calculating $2,430 \times 3$

She makes this place value chart to help her.

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

She gets the answer 729

What mistake has Nijah made?

What is the correct answer?

- 5 Complete the multiplications.

a) $3,126 \times 3 = \boxed{}$

c) $4,132 \times 6 = \boxed{}$

b) $4,812 \times 2 = \boxed{}$

d) $1,502 \times 5 = \boxed{}$

- 6 Ron is working out $7,423 \times 0$

7	4	2	3
x			0
<hr/>			
7	4	2	3

The answer
is 7,423



Do you agree with Ron?

Did Ron have to use a column method? Is there a quicker way?



Multiply 4-digits by 1-digit

- 4 Nijah is calculating $2,430 \times 3$
She makes this place value chart to help her.

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

She gets the answer 729
What mistake has Nijah made?
What is the correct answer?

- 5 Complete the multiplications.

a) $3,126 \times 3 =$

c) $4,132 \times 6 =$

b) $4,812 \times 2 =$

d) $1,502 \times 5 =$

- 6 Ron is working out $7,423 \times 0$

$$\begin{array}{r} 7 \ 4 \ 2 \ 3 \\ \times \quad \quad 0 \\ \hline 7 \ 4 \ 2 \ 3 \end{array}$$

The answer
is 7,423



Do you agree with Ron?
Did Ron have to use a column method? Is there a quicker way?

- 7 Work out these multiplications.

$$2,846 \times 2$$

$$2,846 \times 4$$

$$2,846 \times 8$$

What do you notice about the answers?

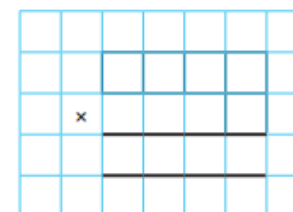
- 8

$$248 \times 10 = 2,480$$

Without using the formal method, how could you use this fact to calculate 248×9 ?

Check your answer using the formal method.
Which method was easier?

- 9 Use each digit card once to write a multiplication.



How many different products can you find?
What is the closest product to 8,000?

Multiply 4-digits by 1-digit

- 1 Complete the sentences to describe the multiplication.

Th	H	T	O
1,000 1,000	100 100	10	1 1 1
1,000 1,000	100 100	10	1 1 1
1,000 1,000	100 100	10	1 1 1

There are 9 ones altogether.

There are 3 tens altogether.

There are 6 hundreds altogether.

There are 6 thousands altogether.

$$2,213 \times 3 = \boxed{6,639}$$

- 2 Complete the multiplication.

Use the place value chart to help you.

Th	H	T	O
00	0		00
00	0		00
00	0		00
00	0		00

		2	1	0	2
	x				4
		8	4	0	8



- 3 A football stadium holds 2,214 people.

The stadium is full for 4 matches in a row.

What was the attendance for all 4 matches?

Th	H	T	O
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100	10	1 1

		2	2	1	4
	x				4
		8	8	5	6
				1	

The attendance for all 4 matches was 8,856

- 4 Nijah is calculating $2,430 \times 3$

She makes this place value chart to help her.

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

She gets the answer 729

What mistake has Nijah made?

She hasn't put her counters in the correct column.

What is the correct answer?

7,290

5 Complete the multiplications.

a) $3,126 \times 3 = 9,378$

c) $4,132 \times 6 = 24,792$

[illegible]

b) $4,812 \times 2 =$	9,624
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d) $1,502 \times 5 =$	7,510
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[illegible]

6 Ron is working out $7,423 \times 0$

$$\begin{array}{r} 7423 \\ \times \quad 0 \\ \hline 7423 \\ \hline \end{array}$$

The answer
is 7,423



Do you agree with Ron? No

Did Ron have to use a column method? Is there a quicker way?

7 Work out these multiplications.

$$2,846 \times 2 = 5,692$$

$2,846 \times 4 =$	11,384
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$2,846 \times 8 =$	22,768
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What do you notice about the answers?

8

$$248 \times 10 = 2,480$$

Without using the formal method, how could you use this fact to calculate 248×9 ?

$$248 \times 9 = 248 \times 10 - 248 \times 1 = 2,480 - 248 = 2,232$$

Check your answer using the formal method.

$$\begin{array}{r} 248 \\ \times \quad 9 \\ \hline 2232 \\ \hline \end{array}$$

Which method was easier?

9 Use each digit card once to write a multiplication.

How many different products can you find?

Various answers.

What is the closest product to 8,000?

8.270

THURSDAY

THURSDAY ANSWERS

FRIDAY

Where can I complete further work?

[Twinkl](#) – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

[Classroom Secrets](#) – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

[White Rose Maths](#) – Free Maths home learning resources for all ages. Watch the videos and try the questions.

[Primary Stars](#) – Free Maths home learning packs for Year 1 and 2.

[BBC Bitesize Primary](#) – Free learning resources available for KS1 and KS2 across all subjects.

[I See Maths](#) – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

[Top Marks](#) – Free educational resources and games for English and Maths.

[ICT Games](#) – Free educational resources and games for English and Maths.