Maths Planning and Ideas

Week Commencing: 4th May 2020

Year Group: 4

Mathematical Focus: Multiplication and Division

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Multiply 2-digit numbers by 1 digit	Multiply 3-digit numbers by 1 digit	Divide 2-digit numbers by 1 digit	Divide 3-digit numbers by 1 digit	
Activity	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set. Can you be a top scorer?* **Main:** White Rose Maths – Watch Summer Term Week 3 – Lesson 1 https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set. Can you be a top scorer?* **Main:** White Rose Maths – Watch Summer Term Week 3 – Lesson 2 https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set. Can you be a top scorer?* **Main:** White Rose Maths – Watch Summer Term Week 3 – Lesson 3 https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set. Can you be a top scorer?* **Main:** White Rose Maths – Watch Summer Term Week 3 – Lesson 4 https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**BANK HOLIDAY FRIDAY**

	Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/04/Lesson-1-Answers-Multiply-2-digits-by-1-digit-2019.pdf No peeking until after you have had a go.	Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/04/Lesson-2-Answers-Multiply-3-digits-by-1-digit-2019.pdf No peeking until after you have had a go.	Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/04/Lesson-3-Answers-Divide-2-digits-by-1-digit-2-2019-1.pdf No peeking until after you have had a go.	Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/04/Lesson-4-Answers-Divide-3-digits-by-1-digit-2019.pdf No peeking until after you have had a go.	

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.

Complete the multiplication.

5 × 32 = ☐

Use Brett's method to work out 6 × 34

6 × 34 = ☐

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

	H	T	O				
		3	7				
×			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
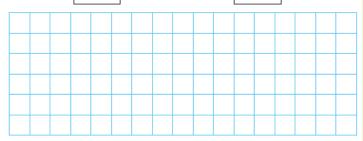
	H	T	O
		4	2
×			8
	3	3	6
		1	

Talk about Dani's method with a partner.

Use Dani's method to work out 3 × 27

e) 29 × 8 = ☐   f) 17 × 4 = ☐

4 Use a written method to complete the multiplications.

a) 38 × 6 = ☐   c) 45 × 9 = ☐

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?

☐

b) 71 × 3 = ☐   d) 52 × 5 = ☐

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

☐

05.05.2020

LC: Can you multiply three-digit numbers by one digit?

Multiply 3-digits by 1-digit

White Rose Maths

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 / 1 1
100 100	10	1 1 1 / 1 1
100 100	10	1 1 1 / 1 1

	H	T	O
		2	1	5
×			3

4 Complete the multiplications.

a)

	H	T	O
	2	1	7
×			4

c)

	H	T	O
	1	0	8
×			6

b)

	H	T	O
	4	3	9
×			2

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

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

Ron

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

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

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?

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 _____ weighs [ ] g more than bag _____.

06.05.2020

LC: Can you divide two-digit numbers by one digit?

Divide 2-digits by 1-digit (2)

1 Whitney is working out 49 ÷ 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 ÷ 4 = [　]

d) Use place value counters to complete the divisions.

50 ÷ 4 = [　]   51 ÷ 4 = [　]

What do you notice?

2 Complete the divisions.

a) 47 ÷ 3 = [　]   e) 49 ÷ 6 = [　]

b) 26 ÷ 5 = [　]   f) 47 ÷ 4 = [　]

c) 89 ÷ 4 = [　]   g) 74 ÷ 3 = [　]

d) 32 ÷ 5 = [　]   h) 81 ÷ 7 = [　]

3 Complete the divisions.

a) 36 ÷ 4 = [　]   c) 45 ÷ 3 = [　]

37 ÷ 4 = [　]   46 ÷ 3 = [　]

38 ÷ 4 = [　]   47 ÷ 3 = [　]

39 ÷ 4 = [　]   48 ÷ 3 = [　]

40 ÷ 4 = [　]   49 ÷ 3 = [　]

b) 70 ÷ 5 = [　]   d) 92 ÷ 4 = [　]

71 ÷ 5 = [　]   91 ÷ 4 = [　]

72 ÷ 5 = [　]   90 ÷ 4 = [　]

73 ÷ 5 = [　]   89 ÷ 4 = [　]

74 ÷ 5 = [　]   88 ÷ 4 = [　]

4 Dora has been working out some divisions.

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

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.

☐ ÷ ☐ = ☐ r ☐

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 3-digits by 1-digit

1 Jack is working out 844 ÷ 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 ÷ 4 = ☐

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

a) 525 ÷ 5 = ☐

b) 636 ÷ 6 = ☐

c) 840 ÷ 8 = ☐

d) 903 ÷ 3 = ☐

3 Eva is working out 844 ÷ 4 using a part-whole model.

844
800   40   4
÷ 4   ÷ 4   ÷ 4
☐   ☐   ☐

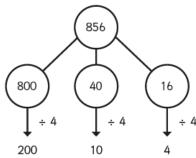Complete Eva's method.   844 ÷ 4 = ☐

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?

☐

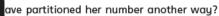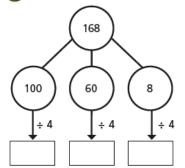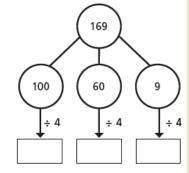**5** Whitney is using flexible partitioning to divide a 3-digit number.

856
800   40   16
÷ 4   ÷ 4   ÷ 4
200   10   4

ave partitioned her number another way?

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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                        169
   /     |     \              /     |     \
 100    60     8            100    60     9
  |      |      |            |      |      |
 ÷4     ÷4     ÷4           ÷4     ÷4     ÷4
  ↓      ↓      ↓            ↓      ↓      ↓
[___]  [___]  [___]       [___]  [___]  [___]
```

$168 \div 4 =$ ____ $169 \div 4 =$ ____

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) $623 \div 5 =$ ____

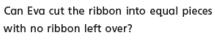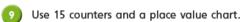d) $824 \div 3 =$ ____

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) Make a number that is divisible by 3

b) Make a number that has a remainder of 1 when divided by 3

c) Make a number that has a remainder of 2 when divided by 3

Create your own problem like this for a partner.

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.