13.1.21

WALT Recall and Use Multiplication Facts for the 7 x Table

F

R

PS

Quick Warm Up

First, count in 9s from 0 to 108? Can you manage without looking at the screen?

0 9 18 27 36 45 54 63 72 81 90 99 108

Now, try counting backwards in 9s from 108 to 0. Can you manage without looking at the screen this time?

108 99 90 81 72 63 54 45 36 27 18 9 0

Can you count forwards and backwards in 9s quickly and accurately?

Vocabulary

concrete apparatus

array pictorial representation

equal groups of lots of

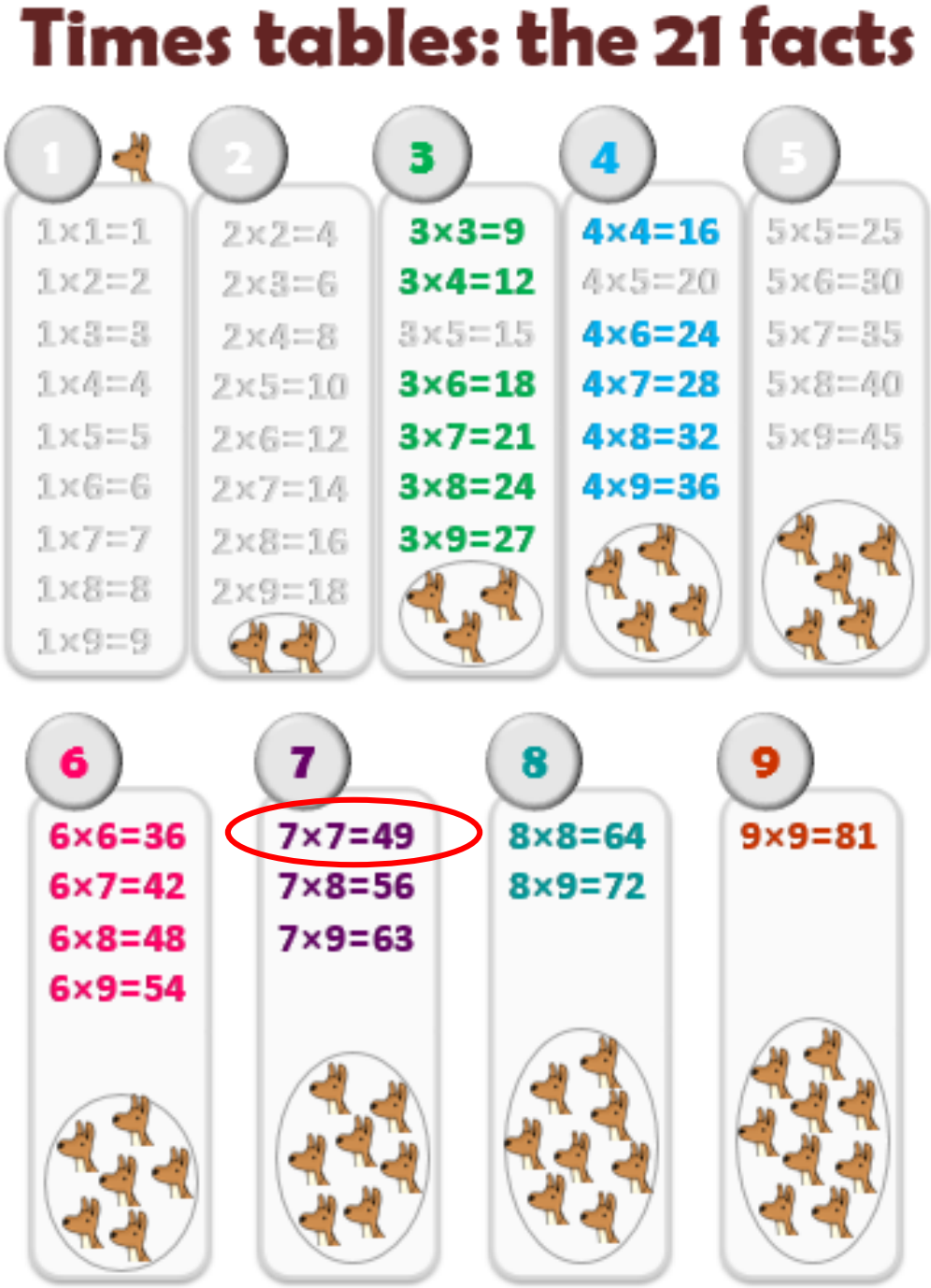
times table total altogether

number sentence multiply multiplication

multiples odd even

If you already know your 2x, 5x and 10x tables...

there are only 21 other tables facts that you need to learn up to 10 x 10 – the coloured ones on this poster!



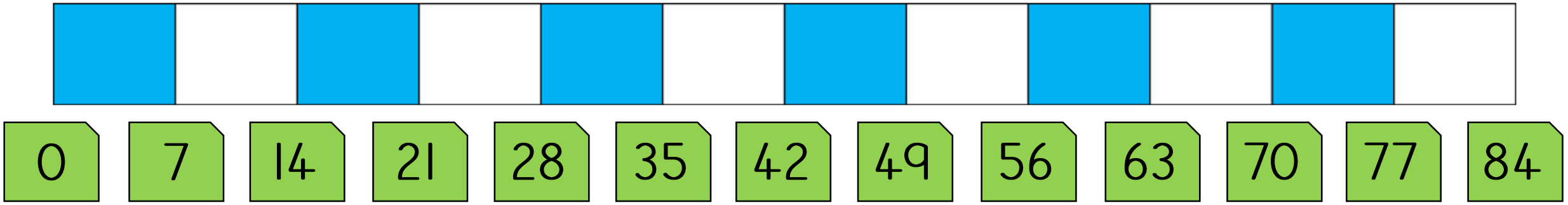
In Year 4, we have already looked at the times tables for: 3, 4, 8, 6 and 9...

so there is only 1 new fact in the 7x table:
7 x 7 = 49

Count in 7s

Now, try counting in 7s up to 84.

If you need help, look at the number line below.



Try counting in 7s without looking at the number line. Try counting backwards too!

Concrete Apparatus

Complete the sentences about the calendar for March:

There are _____ days in a week.

There are _____ weeks on the calendar.

So, there are _____ days in March on the calendar.

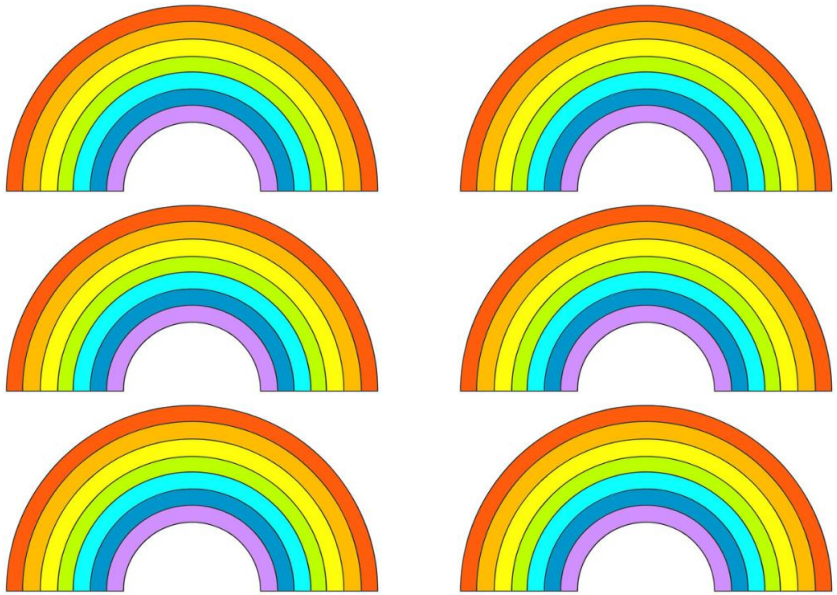
7 × _____ = _____

_____ ÷ _____ = _____

March						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

Fact Families

Can you write all 4 number sentences for the rainbow colours fact family?



_____ × _____ = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

Check that the BIG number is in the correct place for each number sentence.

Fluency 1

1. Complete the number track by counting in 7s.

0	7	14										

2. Draw the correct line through each 'counting in 7s' number maze.

84	77	70	63	69
79	40	61	56	60
43	35	42	49	57
34	28	20	15	6
30	21	14	7	0

0	6	12	75	82
7	13	62	69	76
14	20	56	63	70
21	42	49	55	77
28	35	41	48	84

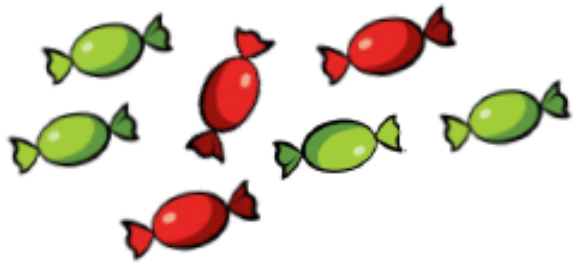
3. Write the missing number for each 'counting in 7s' pair.

35	42	21			77	49			70
77			49	28			63	14	

Fluency 2

1		7	×	4	-				16		7	×	8	-		
2		7	×	8	-				17		7	×	12	-		
3		2	×	7	-				18		7	×	7	-		
4		8	×	7	-				19		7	×	1	-		
5		9	×	7	-				20		7	×	9	-		
6		7	×	0	-				21		3	×	7	-		
7		12	×	7	-				22		7	×	12	-		
8		6	×	7	-				23		7	×	5	-		
9		7	×	7	-				24		11	×	7	-		
10		4	×	7	-				25		9	×	7	-		
11		7	×	10	-				26		7	×	2	-		
12		0	×	7	-				27		6	×	7	-		
13		5	×	7	-				28		1	×	7	-		
14		7	×	3	-				29		7	×	6	-		
15		10	×	7	-				30		7	×	11	-		

Reasoning 1



Billy has 56 sweets. There are 7 sweets in each packet.

How many packets of sweets does he have?

Write a number sentence to help you explain how you know.

Can you use mathematical vocabulary in your explanation?

Reasoning 2

6K is selling tickets for their school play. Each ticket costs £2 and the class can sell one ticket for each chair in the hall.

In the hall, there are 7 rows of chairs and there are 9 chairs in each row.

What is the maximum amount of money 6K will make from selling tickets?

Write down the maths you do and explain your ideas clearly using mathematical vocabulary.

Problem Solving 1

When you count up in 7s, starting from 0, what do you notice about the multiples of 7?

Does this pattern continue with 3-digit numbers when you keep counting in 7s?

Explain your ideas using mathematical vocabulary.

Problem Solving 2

54 42 17 78 35 32

Which numbers can be divided equally by 7? How do you know?

Explain your ideas using mathematical vocabulary.

Extra Practice

If you finish your work quickly or if you want to do some more practice of your times tables, you could use 'Hit the Button'.
https://www.topmarks.co.uk/maths-games/hit-the-button

Also, practise counting forwards and backwards in 6s and 9s.
Can you count in 7s from 0 to 84?

Answers

Fluency 1

1. Complete the number track by counting in 7s.

0	7	14										

0 7 14 21 28 35 42 49 56 63 70 77 81

2. Draw the correct line through each 'counting in 7s' number maze.

84	77	70	63	69
79	40	61	56	60
43	35	42	49	57
34	28	20	15	6
30	21	14	7	0

0	6	12	75	82
7	13	62	69	76
14	20	56	63	70
21	42	49	55	77
28	35	41	48	84

3. Write the missing number for each 'counting in 7s' pair.

35	42
21	28
70	77
49	56
63	70
77	84
42	49
28	35
56	63
14	21

Fluency 2

1	7	×	4	-	28	16	7	×	8	-	56
2	7	×	8	-	56	17	7	×	12	-	84
3	2	×	7	-	14	18	7	×	7	-	49
4	8	×	7	-	56	19	7	×	1	-	7
5	9	×	7	-	63	20	7	×	9	-	63
6	7	×	0	-	0	21	3	×	7	-	21
7	12	×	7	-	84	22	7	×	12	-	84
8	6	×	7	-	42	23	7	×	5	-	35
9	7	×	7	-	49	24	11	×	7	-	77
10	4	×	7	-	28	25	9	×	7	-	63
11	7	×	10	-	70	26	7	×	2	-	14
12	0	×	7	-	0	27	6	×	7	-	42
13	5	×	7	-	35	28	1	×	7	-	7
14	7	×	3	-	21	29	7	×	6	-	42
15	10	×	7	-	70	30	7	×	11	-	77

Reasoning 1

Billy shares his sweets equally so he divides 56 by 7.

56 ÷ 7 = 8 Billy has 8 packets of sweets.

I know 56 ÷ 7 = 8 is correct because it is the inverse of is 7 x 8 = 56

Reasoning 2

There are 7 rows of 9 chairs: 7 x 9 = 63

So, there could be as many as 63 people watching the play

Each ticket costs £2: 63 x 2 = 126

So, the maximum amount that 6K can make is £126.

Problem Solving 1

0 7 14 21 28 35 42 49 56 63 70 77 84

The digits in the ONES column alternate between being EVEN and ODD.

The pattern continues: EVEN ODD EVEN ODD...

Problem Solving 2

54 42 17 78 35 32

The only numbers that are multiples of 7 are: 42 and 35

The best way to check the 7x table is to count up in 7s (unless you already know your 7x table).