

22:1:21

WALT: Recall the 3, 4 and 8 times table.

Remember to draw a margin on each page.

Remember to leave a space between each question.

Remember to write the sub-heading Fluency.

Vocabulary

groups of array lot of multiply

repeated addition product times

multiplied by multiple of groups

Let's count forwards and backwards in 3's

Counting in 3s

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	29	30
31	32	33	34	35	36	37	38	39	40

3	6	9	12	15	18	21	24	27	30	33	36
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$$1 \times 3 = 3$$

$$2 \times 3 = 6$$

$$3 \times 3 = 9$$

$$4 \times 3 = 12$$

$$5 \times 3 = 15$$

$$6 \times 3 = 18$$

$$7 \times 3 = 21$$

$$8 \times 3 = 24$$

$$9 \times 3 = 27$$

$$10 \times 3 = 30$$

$$11 \times 3 = 33$$

$$12 \times 3 = 36$$

<https://www.youtube.com/watch?v=t03yW7Oxsoc>

Let's count forwards and backwards in 4's

Counting in 4s

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	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

4	8	12	16	20	24	28	32	36	40	44	48
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$$1 \times 4 = 4$$

$$2 \times 4 = 8$$

$$3 \times 4 = 12$$

$$4 \times 4 = 16$$

$$5 \times 4 = 20$$

$$6 \times 4 = 24$$

$$7 \times 4 = 28$$

$$8 \times 4 = 32$$

$$9 \times 4 = 36$$

$$10 \times 4 = 40$$

$$11 \times 4 = 44$$

$$12 \times 4 = 48$$

https://www.youtube.com/watch?v=8QU_E0u-tP4

Let's count forwards and backwards in 8's

Counting in 8s

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	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

8	16	24	32	40	48	56	64	72	80	88	96
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$$1 \times 8 = 8$$

$$2 \times 8 = 16$$

$$3 \times 8 = 24$$

$$4 \times 8 = 32$$

$$5 \times 8 = 40$$

$$6 \times 8 = 48$$

$$7 \times 8 = 56$$

$$8 \times 8 = 64$$

$$9 \times 8 = 72$$

$$10 \times 8 = 80$$

$$11 \times 8 = 88$$

$$12 \times 8 = 96$$

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

Write out the answers to the 3, 4 and 8 times table in your book. These will help you to answer the next questions.

Fluency

Copy out each question and complete the calculations.



1	$3 \times 4 =$
2	$5 \times 8 =$
3	$9 \times 3 =$
4	$12 \times 4 =$
5	$8 \times 7 =$
6	$6 \times 4 =$
7	$11 \times 3 =$
8	$4 \times 4 =$
9	$3 \times 8 =$
10	$7 \times 3 =$
11	$8 \times 4 =$
12	$8 \times 8 =$
13	$2 \times 8 =$
14	$5 \times 3 =$
15	$9 \times 4 =$
16	$12 \times 8 =$
17	$10 \times 3 =$
18	$2 \times 4 =$
19	$6 \times 8 =$
20	$8 \times 3 =$

21	$0 \times 4 =$
22	$5 \times 4 =$
23	$9 \times 8 =$
24	$3 \times 3 =$
25	$7 \times 4 =$
26	$11 \times 8 =$
27	$8 \times 3 =$
28	$10 \times 4 =$
29	$4 \times 8 =$
30	$6 \times 3 =$
31	$1 \times 4 =$
32	$0 \times 8 =$
33	$12 \times 3 =$
34	$11 \times 4 =$
35	$1 \times 8 =$
36	$2 \times 3 =$
37	$1 \times 4 =$
38	$0 \times 3 =$
39	$10 \times 8 =$

Fluency answers

1	$3 \times 4 = 12$
2	$5 \times 8 = 40$
3	$9 \times 3 = 27$
4	$12 \times 4 = 48$
5	$8 \times 7 = 56$
6	$6 \times 4 = 24$
7	$11 \times 3 = 33$
8	$4 \times 4 = 16$
9	$3 \times 8 = 24$
10	$7 \times 3 = 21$
11	$8 \times 4 = 32$
12	$8 \times 8 = 64$
13	$2 \times 8 = 16$
14	$5 \times 3 = 15$
15	$9 \times 4 = 36$
16	$12 \times 8 = 96$
17	$10 \times 3 = 30$
18	$2 \times 4 = 8$
19	$6 \times 8 = 48$
20	$8 \times 3 = 24$

21	$0 \times 4 = 0$
22	$5 \times 4 = 20$
23	$9 \times 8 = 72$
24	$3 \times 3 = 9$
25	$7 \times 4 = 28$
26	$11 \times 8 = 88$
27	$8 \times 3 = 24$
28	$10 \times 4 = 40$
29	$4 \times 8 = 32$
30	$6 \times 3 = 18$
31	$1 \times 4 = 4$
32	$0 \times 8 = 0$
33	$12 \times 3 = 36$
34	$11 \times 4 = 44$
35	$1 \times 8 = 8$
36	$2 \times 3 = 6$
37	$1 \times 4 = 4$
38	$0 \times 3 = 0$
39	$10 \times 8 = 80$

Reasoning 1



$$3 + 3 + 3 = 3 \times 3$$

Is Mo correct? Explain why.

Reasoning 2

I have forgotten what
 4×4 is.



Jack says,
"The answer is more than 3×4 "

Complete the calculation to prove this.
 $4 \times 4 = 3 \times 4 + \underline{\quad}$

Mo says,
"The answer is 4 less than 5×4 "

Complete the calculation to prove this.
 $4 \times 4 = \underline{\quad} \times 4 - \underline{\quad}$

Teddy says,
"The answer is double 2×4 "

Complete the calculation to prove this.
 $4 \times 4 = \underline{\quad} \times 4 \times \underline{\quad}$

Whose idea do you prefer? Why?

Reasoning 3



All the numbers in the 8
times table are even.

Explain why

Reasoning 4

On a blank hundred square, colour
multiples of 8 red and multiples of 4
blue.

Always, Sometimes, Never

- Multiples of 4 are also multiples of 8
- Multiples of 8 are also multiples of 4

Problem solving 1

Start this rhythm:

Clap, clap, click, clap, clap, click.

Carry on the rhythm, what will you do on the 15th beat?

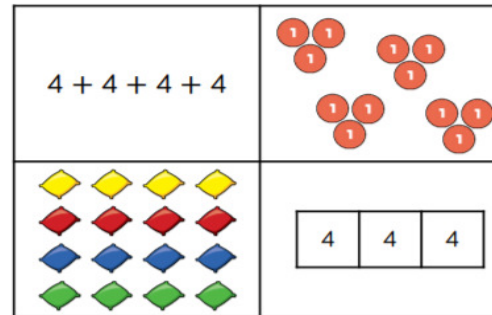
How do you know?

What will you be doing on the 20th beat?

Explain your answer.

Problem solving 2

Which part below does not show counting in fours?



Explain why.

Problem solving 3

Rosie has some packs of cola which are in a box.

Some packs have 4 cans in them, and some packs have 8 cans in them.




Rosie's box contains 64 cans of pop.


How many packs of 4 cans and how many packs of 8 cans could there be?

Find all the possibilities.

Reasoning 2

<p>I have forgotten what 4×4 is.</p> <p>Jack says, "The answer is more than 3×4"</p> <p>Complete the calculation to prove this. $4 \times 4 = 3 \times 4 + \underline{\quad}$</p> <p>Mo says, "The answer is 4 less than 5×4"</p> <p>Complete the calculation to prove this. $4 \times 4 = \underline{\quad} \times 4 - \underline{\quad}$</p> <p>Teddy says, "The answer is double 2×4"</p> <p>Complete the calculation to prove this. $4 \times 4 = \underline{\quad} \times 4 \times \underline{\quad}$</p> <p>Whose idea do you prefer? Why?</p>	 $\begin{aligned} 4 \times 4 &= 3 \times 4 + 4 \\ &= 12 + 4 \\ &= 16 \end{aligned}$ $\begin{aligned} 4 \times 4 &= 5 \times 4 - 4 \\ &= 20 - 4 \\ &= 16 \end{aligned}$ $\begin{aligned} 4 \times 4 &= 2 \times 4 \times 2 \\ &= 16 \end{aligned}$
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Reasoning 3

 <p>Explain why</p>	<p>All the numbers in the 8 times table are even.</p>	<p>When you add an even number to an even number you always make an even number.</p> <p>The 8 times table is repeated addition so keeps adding an even number each time.</p>
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On a blank hundred square, colour multiples of 8 red and multiples of 4 blue.

Always, Sometimes, Never

- Multiples of 4 are also multiples of 8
- Multiples of 8 are also multiples of 4

- 1) Sometimes, every other multiple of 4 is also a multiple of 8
The ones in between aren't because the jumps are smaller than 8
- 2) Always – 8 is a multiple of 4
therefore all multiples of 8 will be multiples of 4

Problem solving answers

Start this rhythm:

Clap, clap, click, clap, clap, click.

Carry on the rhythm, what will you do on the 15th beat?

How do you know?

What will you be doing on the 20th beat?

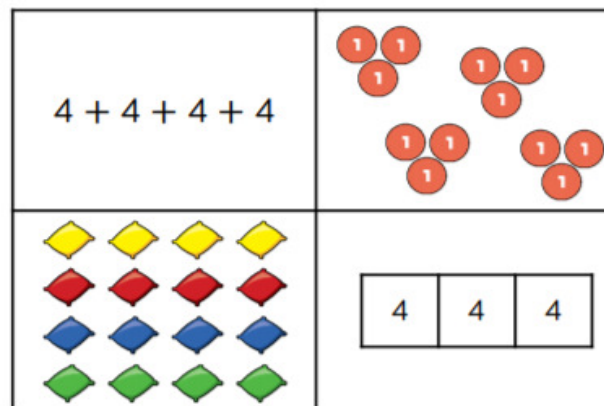
Explain your answer.

Clicks are multiples of three.

On the 15th beat, I will be clicking because 15 is a multiple of 3

On the 20th beat, I will be clapping because 20 is not a multiple of 3

Which part below does not show counting in fours?



Explain why.

The place value counters do not show counting in fours because each part has 3 in so it is counting in threes.

Rosie has some packs of cola which are in a box.

Some packs have 4 cans in them, and some packs have 8 cans in them.



Rosie's box contains 64 cans of pop.

How many packs of 4 cans and how many packs of 8 cans could there be?

Find all the possibilities.

Possible answers:

- 2 packs of 4, 7 packs of 8
- 4 packs of 4, 6 packs of 8
- 6 packs of 4, 5 packs of 8
- 8 packs of 4, 4 packs of 8
- 10 packs of 4, 3 packs of 8
- 12 packs of 4, 2 packs of 8
- 14 packs of 4, 1 pack of 8