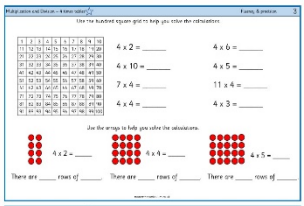
Lesson 16 – Multiplication & Division – The 4 Times Table

NC Objective:	Resources needed:	Vocabulary:
Write and calculate mathematical statements for multiplication and division using the multiplication tables they know Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Differentiated Sheets Teaching Slides	Multiplication, division, commutativity, facts

Children use knowledge of known multiplication tables (2,3, 5 and 10 times tables) and understanding of key c oncepts of multiplication to develop knowledge of the 4 times table.
Children who have learnt 3 x 4 = 12 can use understanding of commutativity to know that 4 x 3 = 12.

Key Questions:
What do you notice about the pattern?
Can you use concrete or pictorial representations to help you? What other facts can you link to this one?
What other times tables will help you with this times table?

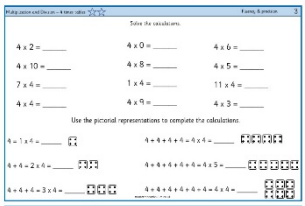
★ Working Towards



Children on this sheet use a hundred square grid to help them calculate the 4 times tables. They can colour in the multiples of 4 beforehand and then calculate the answers.

They answer questions with arrays.

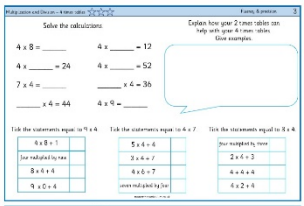
★★ Working Within



Children are encouraged to solve the calculations mentally but may need equipment or may need to draw arrays to help them.

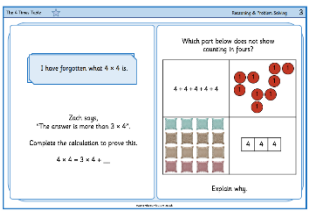
They see the link between repeated addition and multiplication sentence.

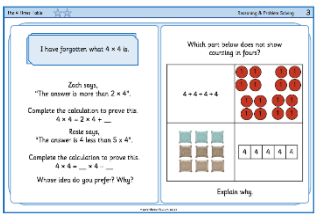
★★★ Greater Depth

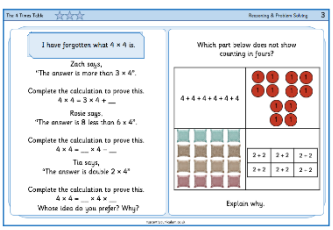


Children on this sheet are fluent in multiplication and division facts up to 4 x 12. They complete missing number calculations and explain the difference between the 2 times tables and 4 times tables.
They then look at a multiplication question and tick the correct corresponding calculation to match it.

Reasoning & Problem Solving







Use the hundred square grid to help you solve the calculations.

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	89	93	94	95	96	97	98	99	100

4 x 2 = _____

4 x 6 = _____

4 x 10 = _____

4 x 5 = _____

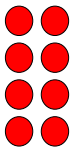
7 x 4 = _____

11 x 4 = _____

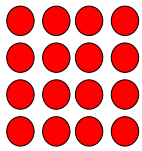
4 x 4 = _____

4 x 3 = _____

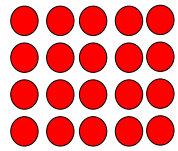
Use the arrays to help you solve the calculations.



4 x 2 = _____



4 x 4 = _____



4 x 5 = _____

There are _____ rows of _____. There are _____ rows of _____. There are _____ rows of _____

The 4 Times Table ☆ Fluency & Precision 3

Use the hundred square grid to help you solve the calculations.

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
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4 x 2 = _____

4 x 6 = _____

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7 x 4 = _____

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4 x 4 = _____

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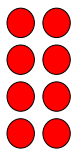
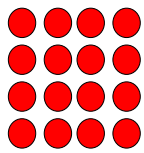
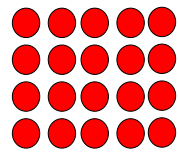
Use the arrays to help you solve the calculations.



4 x 2 = _____



4 x 4 = _____



4 x 5 = _____

There are _____ rows of _____. There are _____ rows of _____. There are _____ rows of _____

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Use the hundred square grid to help you solve the calculations.

1	2	3	4	5	6	7	8	9	10
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71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	89	93	94	95	96	97	98	99	100

4 x 2 = 8

4 x 6 = 24

4 x 10 = 40

4 x 5 = 20

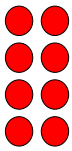
7 x 4 = 28

11 x 4 = 44

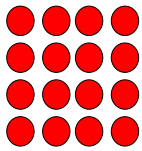
4 x 4 = 16

4 x 3 = 12

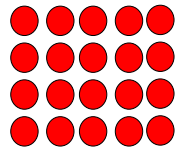
Use the arrays to help you solve the calculations.



4 x 2 = 8



4 x 4 = 16



4 x 5 = 20

There are 4 rows of 2. There are 4 rows of 4. There are 4 rows of 5

The 4 Times Table ☆ Answers Fluency & Precision 3

Use the hundred square grid to help you solve the calculations.

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
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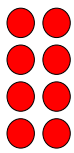
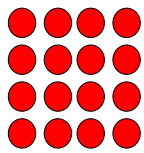
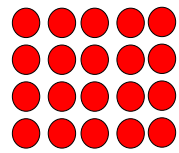


4 x 2 = 8



4 x 4 = 16



4 x 5 = 20

There are 4 rows of 2. There are 4 rows of 4. There are 4 rows of 5

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Solve the calculations.

4 x 2 = _____ 4 x 0 = _____ 4 x 6 = _____

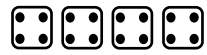
4 x 10 = _____ 4 x 8 = _____ 4 x 5 = _____

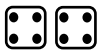
7 x 4 = _____ 1 x 4 = _____ 11 x 4 = _____

4 x 4 = _____ 4 x 9 = _____ 4 x 3 = _____

Use the pictorial representations to complete the calculations.

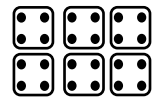
4 = 1 x 4 = _____ 

4 + 4 + 4 + 4 = 4 x 4 = _____ 

4 + 4 = 2 x 4 = _____ 

4 + 4 + 4 + 4 + 4 = 4 x 5 = _____ 

4 + 4 + 4 = 3 x 4 = _____ 

4 + 4 + 4 + 4 + 4 + 4 = 4 x 6 = _____ 

The 4 Times Table ☆☆ Fluency & Precision 3

Solve the calculations.

4 x 2 = _____ 4 x 0 = _____ 4 x 6 = _____

4 x 10 = _____ 4 x 8 = _____ 4 x 5 = _____

7 x 4 = _____ 1 x 4 = _____ 11 x 4 = _____

4 x 4 = _____ 4 x 9 = _____ 4 x 3 = _____

Use the pictorial representations to complete the calculations.

4 = 1 x 4 = _____ 4 + 4 + 4 + 4 = 4 x 4 = _____

4 + 4 = 2 x 4 = _____ 4 + 4 + 4 + 4 + 4 = 4 x 5 = _____

4 + 4 + 4 = 3 x 4 = _____ 4 + 4 + 4 + 4 + 4 + 4 = 4 x 4 = _____

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Solve the calculations.

4 x 2 = 8

4 x 0 = 0

4 x 6 = 24

4 x 10 = 40

4 x 8 = 32

4 x 5 = 20

7 x 4 = 28

1 x 4 = 4

11 x 4 = 44

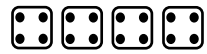
4 x 4 = 16

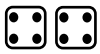
4 x 9 = 36

4 x 3 = 12

Use the pictorial representations to complete the calculations.

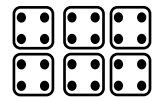
4 = 1 x 4 = 4 

4 + 4 + 4 + 4 = 4 x 4 = 16 

4 + 4 = 2 x 4 = 8 

4 + 4 + 4 + 4 + 4 = 4 x 5 = 20 

4 + 4 + 4 = 3 x 4 = 12 

4 + 4 + 4 + 4 + 4 + 4 = 4 x 6 = 24 

The 4 Times Table ☆☆ Answers Fluency & Precision 3

Solve the calculations.

4 x 2 = 8

4 x 0 = 0

4 x 6 = 24

4 x 10 = 40

4 x 8 = 32

4 x 5 = 20

7 x 4 = 28

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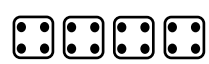
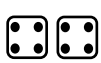
Use the pictorial representations to complete the calculations.

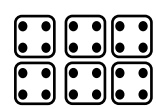
4 = 1 x 4 = 4 

4 + 4 + 4 + 4 = 4 x 4 = 16 

4 + 4 = 2 x 4 = 8 

4 + 4 + 4 + 4 + 4 = 4 x 5 = 20 

4 + 4 + 4 = 3 x 4 = 12 

4 + 4 + 4 + 4 + 4 + 4 = 4 x 4 = 24 

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Solve the calculations.

4 x 8 = _____

4 x _____ = 12

4 x _____ = 24

4 x _____ = 52

7 x 4 = _____

_____ x 4 = 36

_____ x 4 = 44

4 x 9 = _____

Explain how your 2 times tables can help with your 4 times tables. Give examples.

Tick the statements equal to 9 x 4.

4 x 8 + 1	
four multiplied by nine	
8 x 4 + 4	
9 x 0 + 4	

Tick the statements equal to 4 x 7.

5 x 4 + 4	
3 x 4 + 7	
4 x 6 + 7	
seven multiplied by four	

Tick the statements equal to 3 x 4.

three multiplied by five	
2 x 4 + 3	
4 + 4 + 4	
4 x 2 + 4	

The 4 Times Table ☆☆☆ Fluency & Precision 3

Solve the calculations.

4 x 8 = _____

4 x _____ = 12

4 x _____ = 24

4 x _____ = 52

7 x 4 = _____

_____ x 4 = 36

_____ x 4 = 44

4 x 9 = _____

Explain how your 2 times tables can help with your 4 times tables. Give examples.

Tick the statements equal to 9 x 4.

4 x 8 + 1	
four multiplied by nine	
8 x 4 + 4	
9 x 0 + 4	

Tick the statements equal to 4 x 7.

5 x 4 + 4	
3 x 4 + 7	
4 x 6 + 7	
seven multiplied by four	

Tick the statements equal to 3 x 4.

four multiplied by three	
2 x 4 + 3	
4 + 4 + 4	
4 x 2 + 4	

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Solve the calculations.

4 x 8 = 32

4 x 3 = 12

4 x 6 = 24

4 x 13 = 52

7 x 4 = 28

9 x 4 = 36

11 x 4 = 44

4 x 9 = 36

Explain how your 2 times tables can help with your 4 times tables. Give examples.

Two is double four, so if I know that 2 x 5 = 10, 4 x 5 will equal 20.

Tick the statements equal to 9 x 4.

4 x 8 + 1	
four multiplied by nine	✓
8 x 4 + 4	✓
9 x 0 + 4	

Tick the statements equal to 4 x 7.

5 x 4 + 4	
3 x 4 + 7	
4 x 6 + 7	✓
seven multiplied by four	✓

Tick the statements equal to 3 x 4.

three multiplied by five	
2 x 4 + 3	✓
4 + 4 + 4	✓
4 x 2 + 4	✓

The 4 Times Table ☆☆☆ Answers Fluency & Precision 3

Solve the calculations.

4 x 8 = 32

4 x 3 = 12

4 x 6 = 24

4 x 13 = 52

7 x 4 = 28

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Two is double four, so if I know that 2 x 5 = 10, 4 x 5 will equal 20.

Tick the statements equal to 9 x 4.

4 x 8 + 1	
four multiplied by nine	✓
8 x 4 + 4	✓
9 x 0 + 4	

Tick the statements equal to 4 x 7.

5 x 4 + 4	
3 x 4 + 7	
4 x 6 + 7	✓
seven multiplied by four	✓

Tick the statements equal to 3 x 4.

four multiplied by three	
2 x 4 + 3	✓
4 + 4 + 4	✓
4 x 2 + 4	✓

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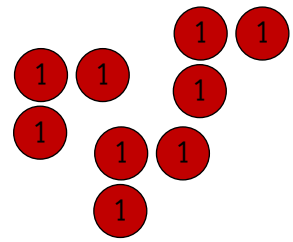
I have forgotten what 4 × 4 is.

Zach says,
"The answer is more than 3 × 4".

Complete the calculation to prove this.

4 × 4 = 3 × 4 + _____

Which part below does not show counting in fours?

4 + 4 + 4 + 4 + 4	
	4 4 4

Explain why.

The 4 Times Table ☆ Reasoning & Problem Solving 3

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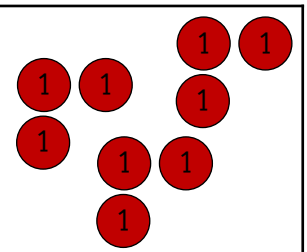
Complete the calculation to prove this.

4 × 4 = 3 × 4 + _____

Which part below does not show counting in fours?

4 + 4 + 4 + 4 + 4	
	4 4 4

Explain why.

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I have forgotten what 4 × 4 is.

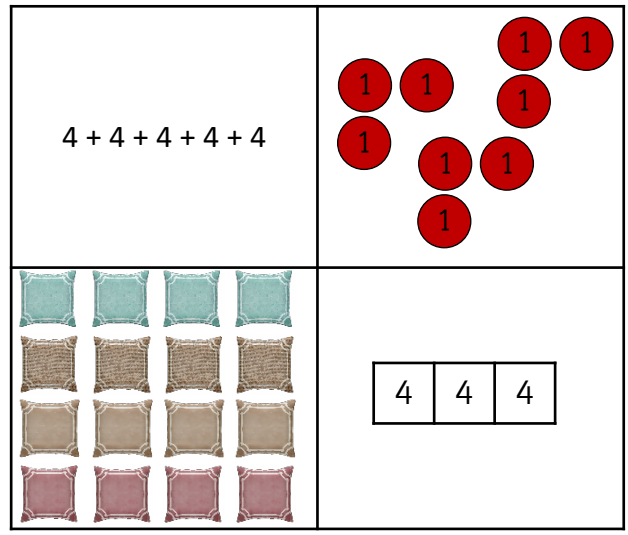
Zach says,
"The answer is more than 3 × 4".

Complete the calculation to prove this.

$4 \times 4 = 3 \times 4 + \underline{4} =$

$= 12 + 4 = 16$

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.

The 4 Times Table ☆ Answers Reasoning & Problem Solving 3

I have forgotten what 4 × 4 is.

Zach says,
"The answer is more than 3 × 4".

Complete the calculation to prove this.

$4 \times 4 = 3 \times 4 + \underline{4} =$

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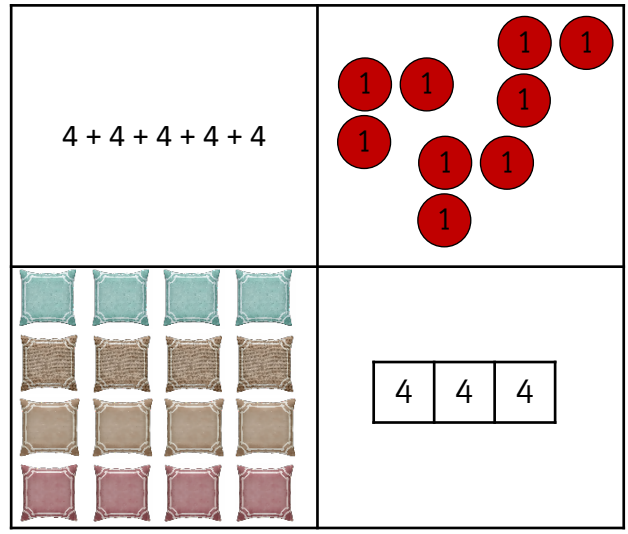
Which part below does not show counting in fours?



Explain why.

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

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I have forgotten what 4 × 4 is.

Zach says,
"The answer is more than 2 × 4".

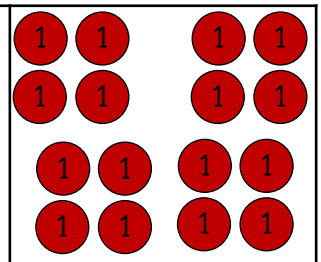
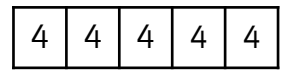
Complete the calculation to prove this.
4 × 4 = 2 × 4 + _____

Rosie says,
"The answer is 4 less than 5 x 4".

Complete the calculation to prove this.
4 × 4 = _____ × 4 – _____

Whose idea do you prefer? Why?

Which part below does not show counting in fours?

4 + 4 + 4 + 4	
	

Explain why.

The 4 Times Table ☆☆ Reasoning & Problem Solving 3

I have forgotten what 4 × 4 is.

Zach says,
"The answer is more than 2 × 4".

Complete the calculation to prove this.
4 × 4 = 2 × 4 + _____

Rosie says,
"The answer is 4 less than 5 x 4".

Complete the calculation to prove this.
4 × 4 = _____ × 4 – _____

Whose idea do you prefer? Why?

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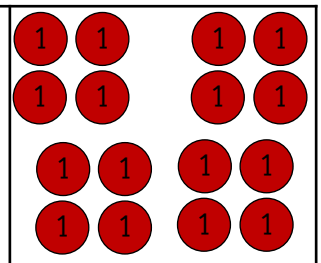
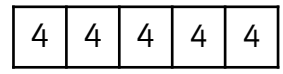
4 + 4 + 4 + 4	
	

Explain why.

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I have forgotten what 4 × 4 is.

Zach says,
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Complete the calculation to prove this.
4 × 4 = 2 × 4 + 8 = 8 + 8= 16

Rosie says,
"The answer is 4 less than 5 x 4".

Complete the calculation to prove this.
4 × 4 = 5 × 4 – 4 = 20 – 4 = 16

Whose idea do you prefer? Why?

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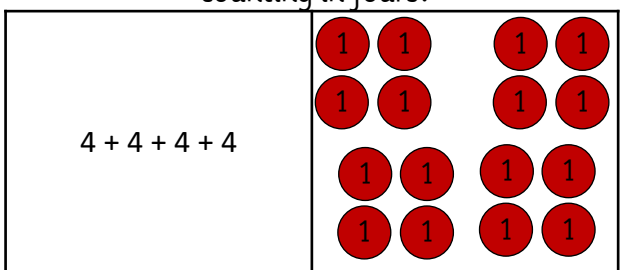

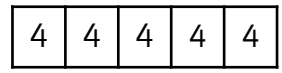

Explain why.

The beanbags do not show counting in fours because each colour has 3 in so it is counting in threes.

The 4 Times Table ☆☆ Answers Reasoning & Problem Solving 3

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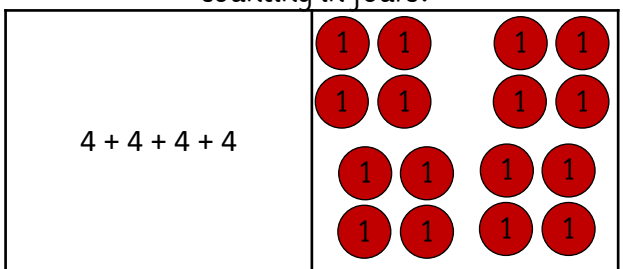

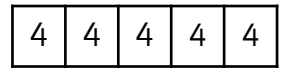

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Tia says,
"The answer is double 2 × 4"

Complete the calculation to prove this.
4 × 4 = __ × 4 × _____
Whose idea do you prefer? Why?

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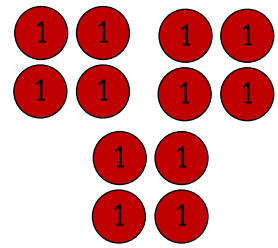
4 + 4 + 4 + 4 + 4 + 4



2 + 2	2 + 2	2 + 2
2 + 2	2 + 2	2 + 2

Explain why.

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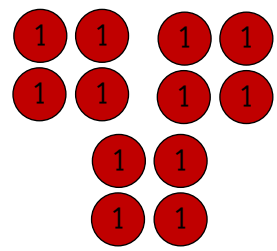

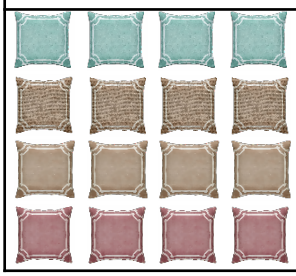

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2 + 2	2 + 2	2 + 2

Explain why.

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Complete the calculation to prove this.
4 × 4 = 3 × 4 + 4 = 12 + 4 = 16

Rosie says,
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Complete the calculation to prove this.
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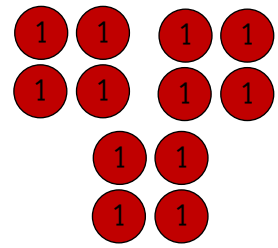

2 + 2	2 + 2	2 + 2
2 + 2	2 + 2	2 + 2

Explain why.

All of the parts show counting in fours.

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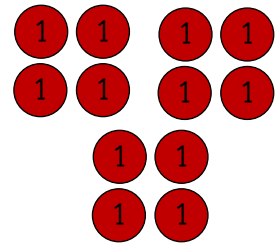

2 + 2	2 + 2	2 + 2
2 + 2	2 + 2	2 + 2

Explain why.

All of the parts show counting in fours.

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