

Multiplication and Division



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The background is a vibrant teal color, decorated with various mathematical symbols and geometric shapes. In the top left, there are two orange '3's and an orange '+' sign. In the top center, there is a dark blue 'x'. In the top right, there is a light blue 'x' with a small triangle inside. In the bottom left, there is a large orange 'x'. In the bottom center, there is a large dark blue '1'. In the bottom right, there is a large light blue 'x' and a large black outline of a '2'. There are also several small circles and triangles in various colors (white, orange, teal, pink, purple) scattered throughout the background.

Lesson 5

Multiply by 4



Starter– count in 4s

Starting from 0, count forwards in 4s.

Starting from 48, count backwards in 4s.

Starting from 40 count forwards in 4s until you get to 80.



Spot the pattern

Can you spot a relationship between the 2 and 4 times tables?

	1	2	3	4	5	6	7	8
2 times tables	2	4	6	8	10	12	14	16
4 times tables	4	8	12	16	20	24	28	32

Spot the pattern

answers

Can you spot a relationship between the 2 and 4 times tables?

	1	2	3	4	5	6	7	8
2 times tables	2	4	6	8	10	12	14	16
4 times tables	4	8	12	16	20	24	28	32

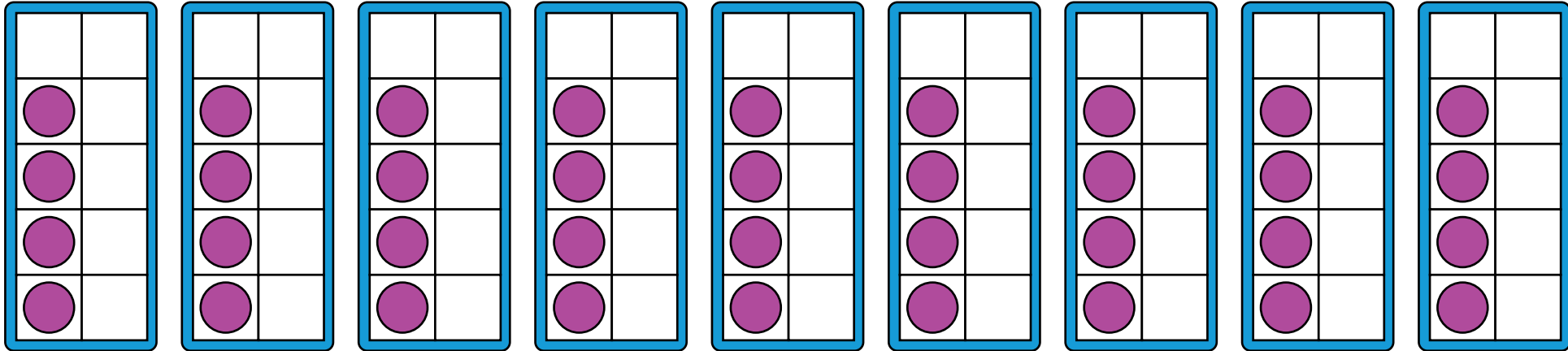
The 4 times table is double the 2 times table.

$$5 \times 2 = 10$$

$$5 \times 4 = 20$$



4x tables– repeated addition



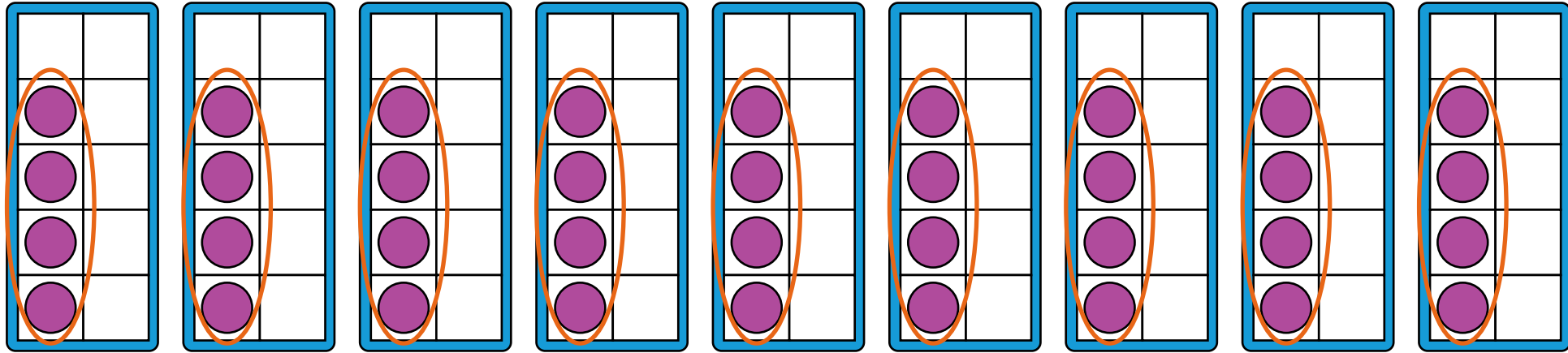
How would this be written as a repeated addition sum?

How would this be written as a multiplication calculation?

4x tables– repeated addition

answers

5



How would this be written as a repeated addition sum?

$$4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 36$$

How would this be written as a multiplication calculation?

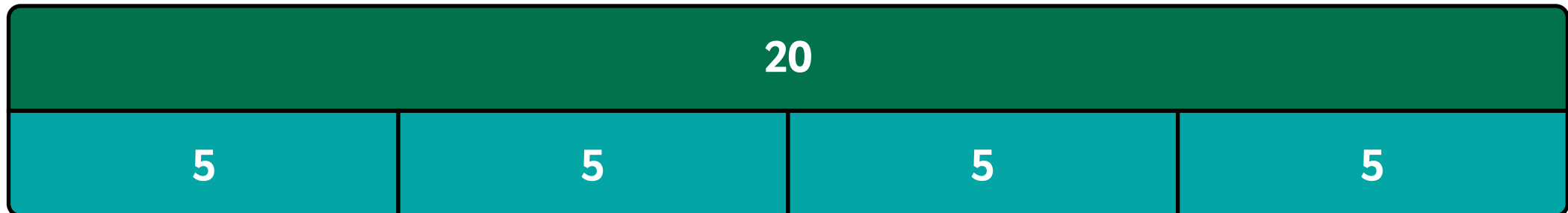
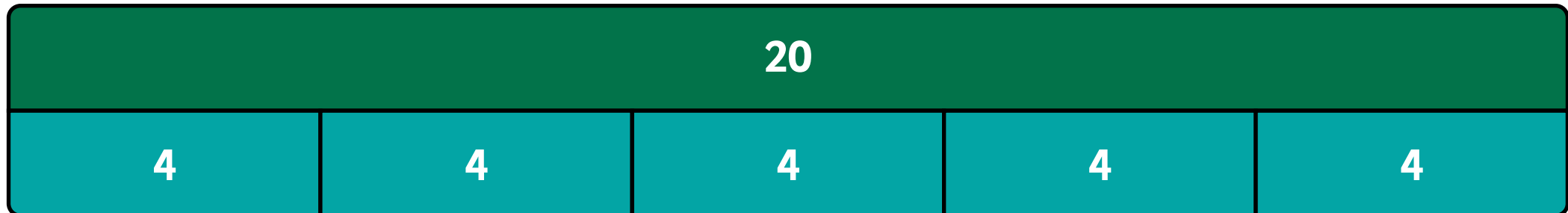
$$4 \times 9 = 36$$



4x tables– bar model

What multiplication calculations are the bar models below showing?

What is the same? What is different?

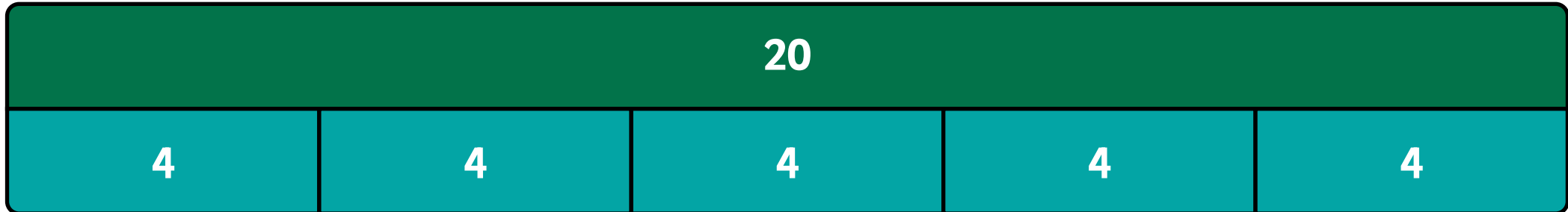


4x tables– bar model

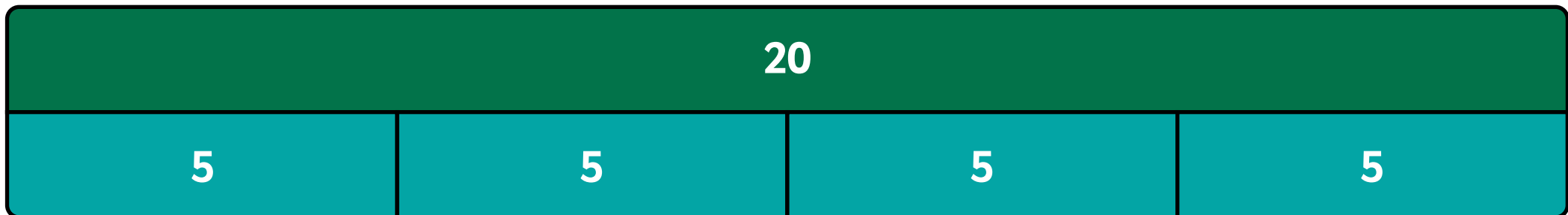
answers

7

What multiplication calculations are the bar models below showing?



$$4 \times 5 = 20$$



$$5 \times 4 = 20$$



4x tables– bar model

whiteboard

8

Draw a bar model to represent each calculation below.

$$4 \times 3 = 12$$

$$3 \times 4 = 12$$



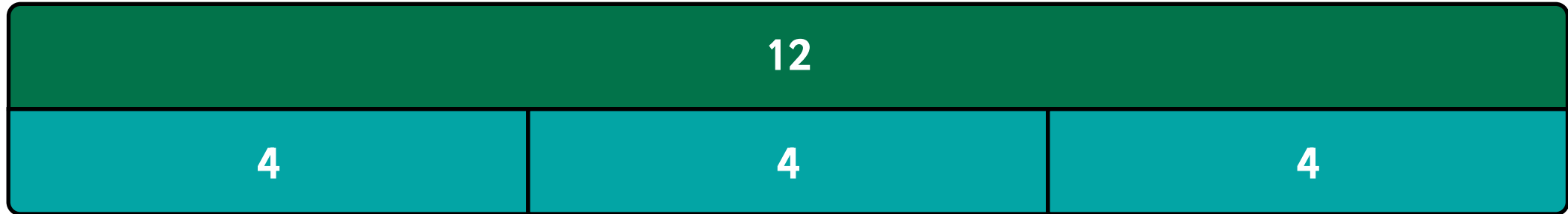
4x tables– bar model

whiteboard

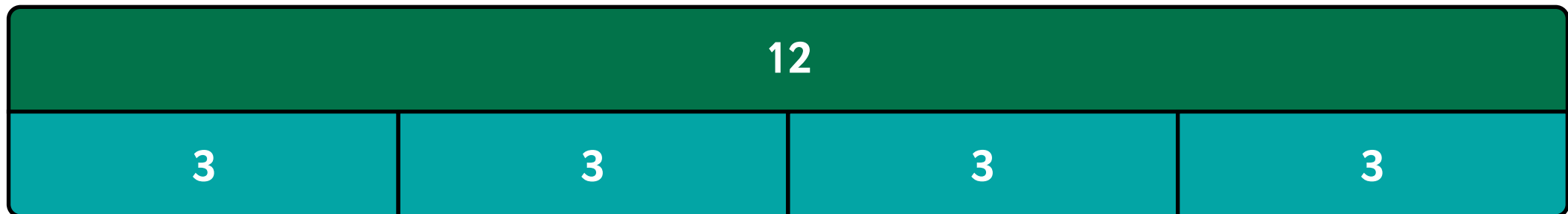
answers

9

Draw a bar model to represent each calculation below.



$$4 \times 3 = 12$$



$$3 \times 4 = 12$$



Your turn! Try the worksheet.

Multiply by 4

$$2+2=4$$

Fluency



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1) Count in 4s.
Cats have 4 legs.



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

Colour the multiples of 4 on the hundred square.

Multiply by 4

$$2+2=4$$

Fluency

2) Complete the multiplication calculations. Use the number track to help you.

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