RECALL- WHICH OF THESE CALCULATIONS ARE DOUBLING NUMBERS?

2 x 2 = 4

4 x 3 = 12

8 x 2 = 16

4 + 4 + 4 + 4 = 16

4 + 4 = 8

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TO USE MULTIPLICATION KNOWLEDGE TO SOLVE PROBLEMS IN THE 2, 5 AND 10 TIMES TABLES

Date Learning ladder ref

MULTIPLICATION AND DIVISION

SWE write to sentences to explain how they have solved problems.

SW solve harder problems that have multiple choices for answers.

MW solve simple problems involving the 2,5 and 10 times tables

AW recall number facts for the 2, 5 and 10 times tables.

15.01.21

GUIDED PRACTICE

Today we are going to use our knowledge of the 2, 5 and 10 times table to solve problems.

First, let's remind ourselves of the 2, 5 and 10 times table.

Have a go at writing them down as fast as you can.

GUIDED PRACTICE

2 times table:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

5 times table:

5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60

10 times table:

10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120

To work out 2 x 6, I need to count in my 2 times table 6 times.
2, 4, 6, 8, 10, 12
The answer is the 6th number.

What is 5 x 4?

What is 10 x 5?

GUIDED PRACTICE

2 times table:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

5 times table:

5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60

10 times table:

10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120

To work out 2 x 6, I need to count in my 2 times table 6 times.
2, 4, 6, 8, 10, 12
The answer is the 6th number.

What is 5 x 4?
5, 10, 15, 20
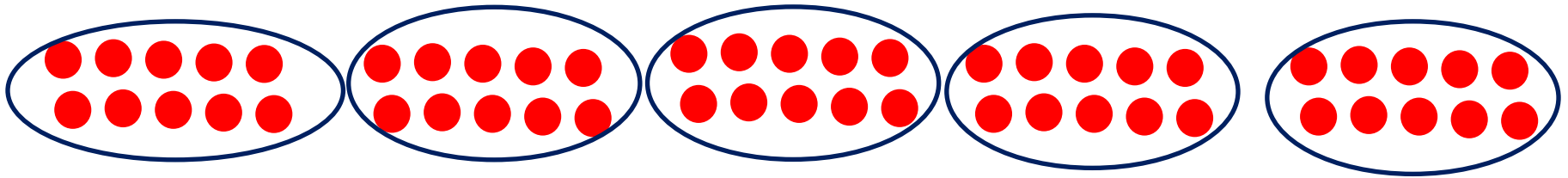
What is 10 x 5?
10, 20, 30, 40, 50

What would the addition calculation be for 10 x 5? Can you write a sentence explaining why?

GUIDED PRACTICE

What would the addition calculation be for 10 x 5? Can you write a sentence explaining why?

10 + 10 + 10 + 10 + 10 = 50 because 10 times 5 means we need to calculate 5 lots of 10. This is the same as 5 groups of 10.
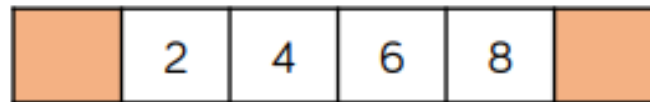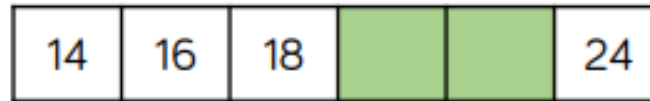
INTELLIGENT PRACTICE

■ Count in 2s to calculate how many eyes there are.

There are ____ eyes in total.

____ × ____ = ____

■ Complete the number track.

2	4		8		12

14	16	18			24

	2	4	6	8	

■ How many wheels are there on five bicycles?

If there are 14 wheels, how many bicycles are there?

How many petals altogether?

Write the calculation.

There are 35 fingers.
How many hands?

___ × 5 = 35

Use <, > or = to make the statements correct.

$$2 \times 5 \quad \bigcirc \quad 5 \times 2$$
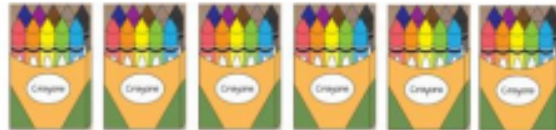
$$3 \times 2 \quad \bigcirc \quad 4 \times 5$$

$$10 \times 5 \quad \bigcirc \quad 5 \times 5$$

INTELLIGENT PRACTICE

10 Times Table

■ How many crayons are there altogether?

There are ____ crayons altogether

____ × 10 = ____

■ Altogether there are 30 bottles, how many walls are there?

____ × 10 = 30

■ Think of a multiplication fact for 10s to go in each box.

2 × 10		9 × 10	0 × 10		2 × 10
smallest		greatest	smallest		greatest

	1 × 10	6 × 10		5 × 10	
smallest		greatest	smallest		greatest

DIVE DEEPER 1

Fill in the blanks.

$$3 \times \underline{\hspace{1cm}} = 6$$

$$\underline{\hspace{1cm}} \times 2 = 20$$

$$\underline{\hspace{1cm}} = 8 \times 2$$

Tommy says that $10 \times 2 = 22$

Is he correct?

Explain how you know.

DIVE DEEPER 1 ANSWERS

Fill in the blanks.

$$3 \times \underline{\quad} = 6$$

$$\underline{\quad} \times 2 = 20$$

$$\underline{\quad} = 8 \times 2$$

2

10

16

Tommy says that $10 \times 2 = 22$

Is he correct?

Explain how you know.

No Tommy is wrong because $10 \times 2 = 20$
Children could draw an array or a picture to explain their answer.

DIVE DEEPER 2

Is Mo correct?

Every number in the 5 times table is odd.

Explain your answer.

Tubes of tennis balls come in packs of 2 and 5

Whitney has 22 tubes of balls.

How many of each pack could she have?

How many ways can you do it?

DIVE DEEPER 2 ANSWERS

Is Mo correct? Every number in the 5 times table is odd. Explain your answer.	Mo is incorrect because some of the multiples of the five times-table are even, e.g. 10, 20, 30
Tubes of tennis balls come in packs of 2 and 5 Whitney has 22 tubes of balls. How many of each pack could she have? How many ways can you do it?	Whitney could have: 4 packs of 5 and 1 pack of 2, 11 packs of 2 and 0 packs of 5, 2 packs of 5 and 6 packs of 2