## Year 2 Multiplication Word Problems



## Success criteria:

I can work out simple $2 \mathrm{~s}, 5 \mathrm{~s}$, and 10 s multiplication word problems. I can draw arrays or use knowledge of my time tables to help me.

## Our mathematical vocabulary



## Commutative Law

When you multiply numbers, you will get the same answer when you swap them around.

$$
5 \times 3=15 \quad 3 \times 5=15
$$

| Mưtiplication ${ }^{\text {a }}$ |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  | epeated addition ld learn our 2 | groups of 2 s . s tables up to | $2 \times 2$ |
| $\infty 1 \times 2=2$ | $\infty_{\infty}^{\infty} 2 \times 2=4$ | ${\underset{-\infty}{\infty} 3 \times 2=6, ~(2)}_{\infty}^{\infty}$ | ${ }_{\infty}^{\infty} 4 \times 2=8$ |
|  |  |  |  |



## Rapid Recall Revision Tasks

$24+37=$
28-19 =
$4 \times 10=$
$3+6+7=$
$11 \times 5=$

Why not try Hit the button at https://www.topmarks.co.uk/ maths-game/hit-the-button You could practise your number bonds and doubles as well.

## Try to learn your:

2 times table
5 times table
10 times table
$3 \times$ table

It's really important that you practise your times tables every day as they will help you with lots of the maths you will meet in KS2.

## Anchor task

## Jack's pet lizard eats 2 worms a day. How many worms will he eat in a week?

Don't forget to show the commutative multiplication sentence.


Challenge: How many worms will he eat in 3 weeks?


How could we solve this? Talk to your grown up about your ideas.

## Review

Jack's pet lizard eats 2 worms a day. How many worms will he eat in a week?

We need to work out what is happening in this story.
The pet lizard is eating 2 worms every day for 1 week.
How many worms does he eat?
A week is 7 days long.
If he eats 2 worms a day that is 7 lots of 2 .
7 lots of 2 is the same as $7 \times 7$.
$7 \times 2=14$
Jack's lizard eats 14 lizards in 1 week.

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You could draw an array to help you or pictures of equal groups.
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I used my 2 times table to help me solve this.

## Guided task

 Peter builds a tower which is 10 cm tall. Joe's tower is 5 times taller. How tall is Joe's tower?

Talk to your grown up about how you could solve this.
Could you use your times tables to help you?

## Guided task

Peter builds a tower which is 10 cm tall. Joe's tower is 5 times taller. How tall is Joe's tower?

Read the story and find a picture in your head

You could draw an array to help you or pictures of equal groups. of 2 towers. One Tower is 10 cm tall and the other is 5 times taller.
To find out how tall Joe's tower is, I need to work out what number is 5 times bigger than 10.

I can multiply.
$5 \times 10=50$
Joe's tower is 50 cm tall.

## Guided task

## There are 5 eggs in each box. How many eggs are there in 7 boxes?

Talk to your grown up about how you could solve this.
Could you use your times tables to help you?

## Guided task

## There are 5 eggs in each box. How many eggs are there in 7 boxes?

Read the story and picture 7 boxes of 5 eggs in your head. That's the same as saying 7 lots of 5 .
7 lots of $5=7 \times 5$
$7 \times 5=35$

You could draw an array to help you or pictures of equal groups.

## Now try this

There are 12 children at a party. They each eat 2 cakes. How many cakes are eaten altogether?


> Remember: You could draw an array to help you or pictures of equal groups.

## Now try this

There are 12 children at a party. They each eat 2 cakes. How many cakes are eaten altogether?

12 children and 2 cakes.
12 lots of 2
$12 \times 2=24$
24 cakes are eaten altogether.

## Independent Practice

## Solving word problems.

Your task is to solve the multiplication problems on the next pages. You must write a word sentence to explain your answer as well as show the number sentence. Don't forget to show the commutative multiplication sentence too!

## Example:

I have 4 bags of sweets. There are 5 sweets in each bag. How many sweets do I have altogether?

[^0]Challenge: can you create your own multiplication word problem for a friend?

## Independent Practice

| One spider has 8 legs. <br> How many legs will 5 spiders have? | One spider has 8 legs. <br> How many legs will 10 spiders have? |
| :--- | :--- |
| There are 7 wheels on one car. <br> How many wheels will there be on 5 <br> cars? <br> x | There are 9 wheels on one car. <br> How many wheels will there be on 5 <br> cars? |
| There are 7 days in one week. <br> How many days are there in 2 weeks? | There are 7 days in one week. <br> How many days are there in 10 weeks? |
| There are 10 sweets in a packet. <br> How many sweets will be in 9 packets? | There are 6 sweets in a packet. <br> How many sweets will be in 5 packets? |
| 4 children can sit at one table. How <br> many children can sit at 5 tables? | There are 3 cats in one basket. How <br> many cats are there in 5 baskets. |
| One butterfly has 2 wings. How many <br> wings will 9 butterflies have? | There are 10 crayons in one pack. How <br> many crayons in 11 packs? |

## Challenge:

Which has more?
$\mathbf{4}$ bags of sweets with 5 in each or $\mathbf{3}$ bags of sweets with 10 In each? Explain your answer.
$4 \times 5=20 \quad 3 \times 10=31$

## If you're finding things tricky...




乙
Which has more?
4 bags of sweets with 5 in each or 3 bags of sweets with 10 in each?

Draw your reasoning and write repeated addition calculations.


## If you want a challenge...



Do you agree with the children?
Explain your answer.

The 5 Times Table

At the café, all hot chocolate toppings are 5 p .


Alice chose cream, a flake and strawberry sauce. Aman asked for marshmallows, fudge, cream and nuts. Jin had all the toppings.

Write a calculation for each child to show how much each of them spent.

Alice's mum spent 25 p on toppings.
Aman's dad spent 30p on toppings.
Jin's Grandma spent 10 p on toppings.
How many toppings did they each have? Write a calculation for each adult.

Work out the cost.

## Review


$3 \times 3$
$2 \times 6$
$2 \times 3$
$2 \times 2$

Match the picture to the multiplication.

## Answers

## $2 \times 6$


$2 \times 2$
$3 \times 3$

## $2 \times 3$




## Rapid Recall Revision Tasks

$$
\begin{aligned}
& 24+37=61 \\
& 28-19=9 \\
& 4 \times 10=40 \\
& 3+6+7=16 \\
& 11 \times 5=55
\end{aligned}
$$

## Try to learn your: <br> 2 times table <br> 5 times table <br> 10 times table <br> $3 \times$ table

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4 bags of sweets with 5 in each or $\mathbf{3}$ bags of sweets with 10 in each? Explain your answer.




[^0]:    $4 \times 5=20$. Number sentence
    I have 20 sweets altogether. Word sentence

