

Multiplication and Division



Maths | Year 3 | Multiplication and Division | Multiplication | Lesson 1 of 4: Multiplication Magic



# Aim

• I can multiply multiples of 10 using Multiplication Magic.

# **Success Criteria**

- I can draw the wizard's hat to join the facts.
- I can calculate the facts using multiplication tables.



#### **Beat the Clock**



Your teacher will tell you which columns to complete. The stopwatch will stop after **5 minutes**.

If you finish before the clock, shout **'finished!**' and your teacher will tell you your time. Write this at the top of the sheet.

When your work is marked your teacher will give you a score.

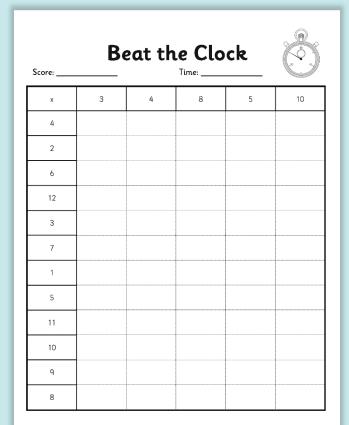
If you didn't get all the questions right, next time focus on improving your score.

If you got them all correct - well done! Next time try to improve your time or choose a more tricky multiplication table.

Remember that you are racing against yourself. Don't worry about what your friends are doing!



#### **Beat the Clock**



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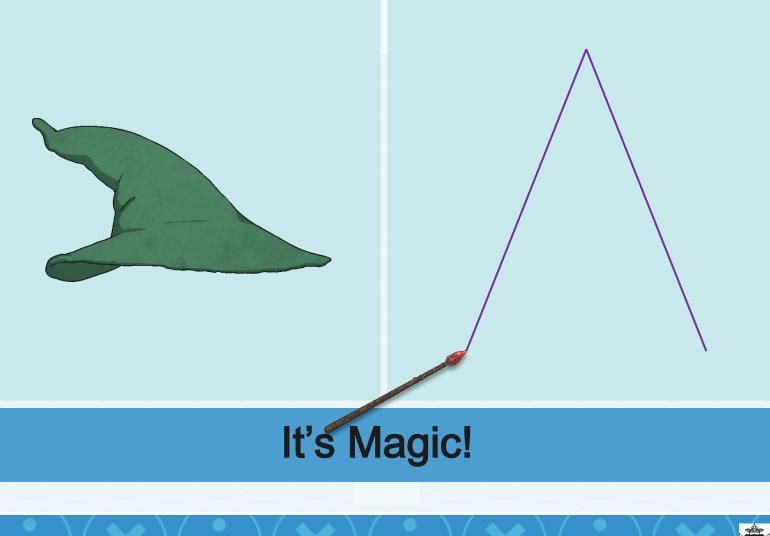


Multiplication Magic is special trick that makes multiplying numbers in the 10× table really easy.





#### Draw the Hat to Find the Fact





Draw the wizard's hat to find the facts to calculate.

60 × 4



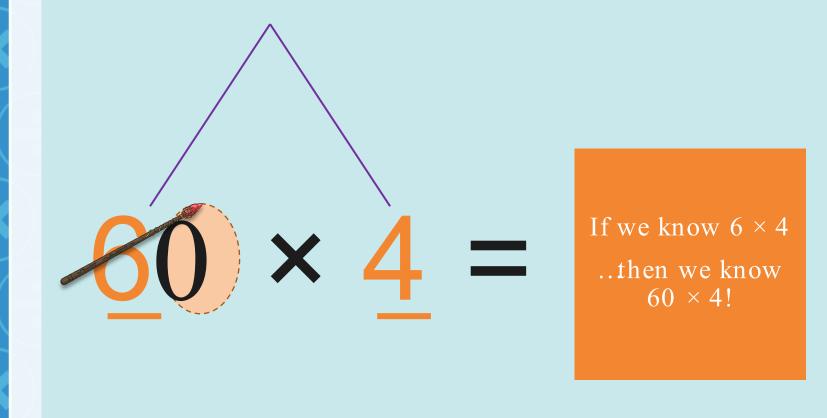


 $6 \times 4 = 24$ 

60

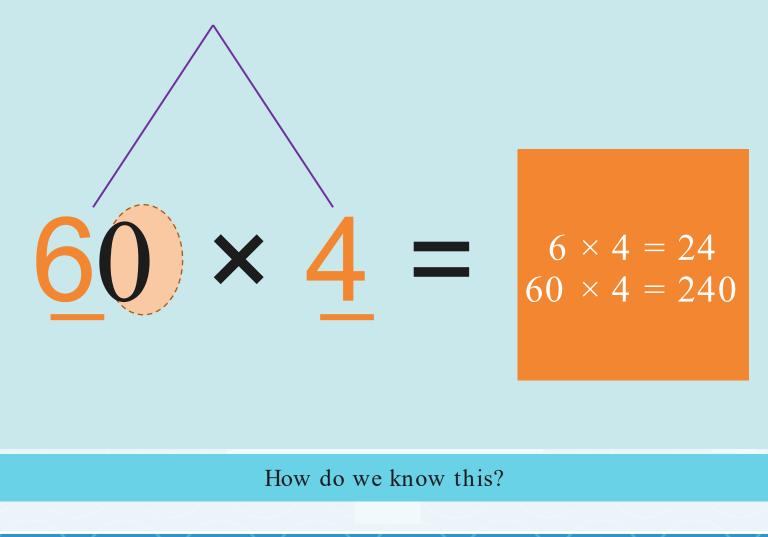
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Use your multiplication facts to calculate.







#### The Maths Behind the Magic

How does Multiplication Magic work?

40 × 3 =

We look for the facts and ignore the tens, so we calculate:

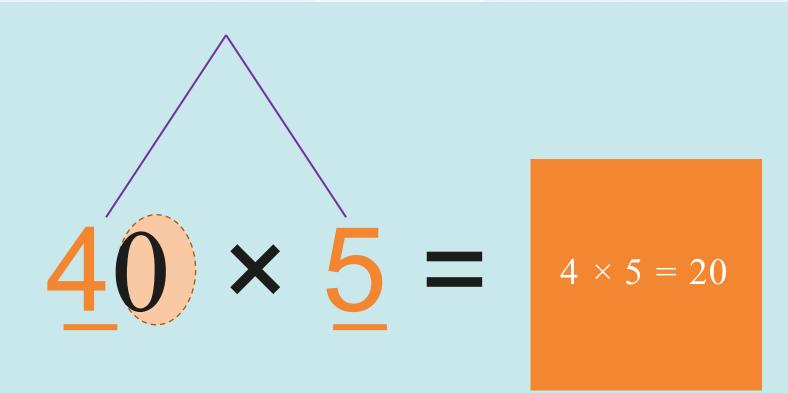
 $4 \times 3 = 12$ 

However, 4 really means 40, not 4. Therefore, we need to move the digits one place to the left and add a zero as a place holder.

So 40 × 3 = 120

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	1	Q

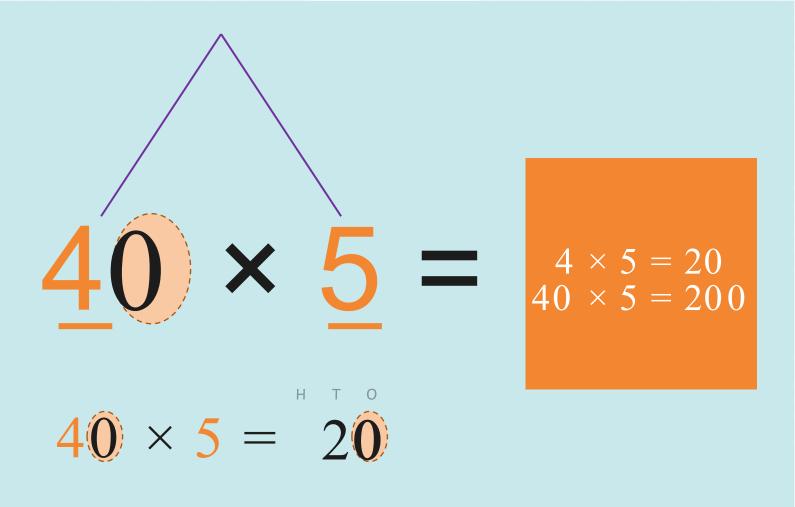




When we calculate  $4 \times 5$ , the answer already ends in a zero.

Does this change anything?







#### Now It's Your Turn To Use Multiplication Magic



Now you try :

$$50 \times 8 = ?$$
  
 $3 \times 60 = ?$ 

70 × 4 = ?

Challenge: 30 × 40 = ? 20 × 80 = ? 90 × 30 = ?



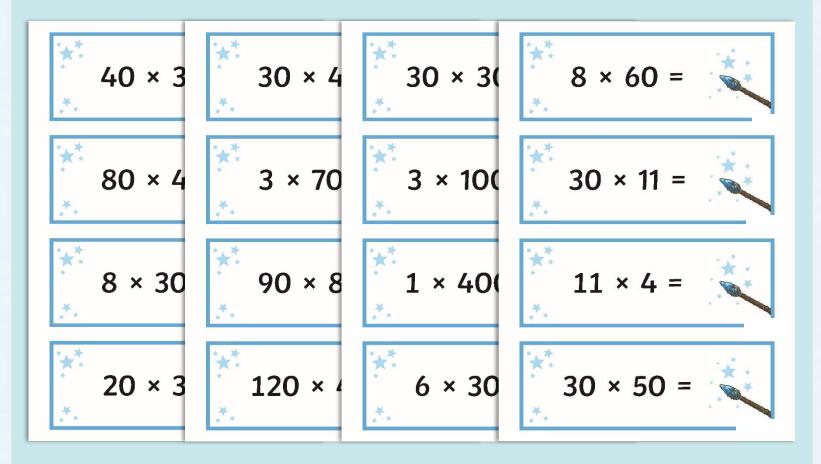
#### Remember

- Draw the wizard's hat.
- Use your multiplication facts to calculate.

 $5 \times 8 = 40$   $50 \times 8 = 400$   $50 \times 80 = 4000$  $500 \times 80 = 40000$ 



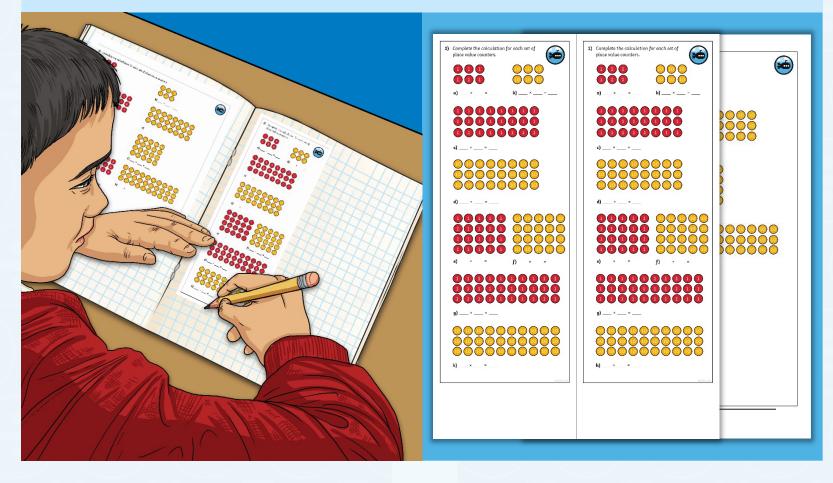
### **Multiplication Magic Activity**





#### Diving into Mastery

#### Dive in by completing your own activity!



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### What Is Multiplication Magic?



How do you use the Multiplication Method? Explain to your partner.



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