

## Class 11 Maths

As you are aware, having quick recall and knowledge of your times tables helps you with lots of other areas of maths. I would like you all to spend some time on Times Tables Rockstars. Please try and spend at least 20 minutes on TTRs. It is up to you what you choose to go on, but I would like you to complete another **soundcheck** this week so that I can see how you are doing.

<https://play.ttrockstars.com/auth>

Over the next few weeks, your maths work will be a recap of all of the work we have done in school and each of the different areas we have covered during the time away from school. Remember to use each of the methods that we have learnt and try you best.

Remember that as always, if there is anything that you are unsure of, send me an email and I will do my best to help. [CPSClass11@corporationroad.darlington.sch.uk](mailto:CPSClass11@corporationroad.darlington.sch.uk)

**This week, you will be recapping multiplication and division. All of these questions will be concepts that we have looked at before.**

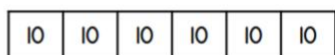
If you complete all of these questions, you will be able to:

1. Recall multiplication and division up to  $12 \times 12$ .
2. Use place value, known and derived facts to multiply and divide mentally, including: dividing by 1; multiplying together three numbers.
3. Recognise and use factor pairs and commutativity in mental calculations.
4. Multiply 2 digit and 3 digit numbers by a 1 digit number using formal written layout.
5. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as  $n$  objects are connected to  $m$  objects.

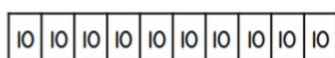
### Monday

1 Match each statement to the correct bar model.

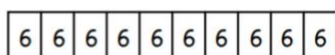
6 bags of  
10 sweets



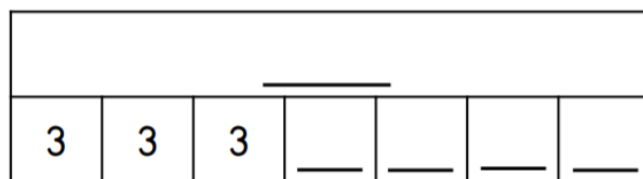
10 bags of  
6 sweets



10 bags of  
10 sweets



2 Complete the bar model to show  $7 \times 3$



3 Each box contains 6 eggs.

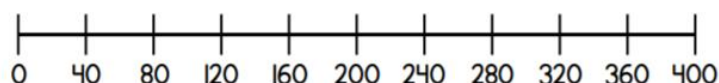


Complete the fact family to represent the eggs.

$$\begin{array}{l} \square \times \square = \square \\ \square \times \square = \square \\ \square \div \square = \square \\ \square \div \square = \square \end{array}$$

4 Use the number line to help you work out

$$6 \times 40 = \square$$



**Tuesday**

5 Complete the calculations.

$5 \times 30 = \boxed{\phantom{000}} \quad 180 \div 2 = \boxed{\phantom{000}}$

$5 \times 300 = \boxed{\phantom{000}} \quad 630 \div \boxed{\phantom{000}} = 70$

7 A bag costs £11 and a mug costs £7  
Annie spends £80 in total on bags and mugs.  
She buys 6 bags.  
How many mugs does she buy?

6 Leon makes an array using counters. Part of the array is covered.



Write down a multiplication that the array shows.

$\boxed{\phantom{00}} \times \boxed{\phantom{00}}$

How many counters are in the array?

**Wednesday**

8 The product of two numbers is 48  
The sum of the two numbers is 16  
Circle the two numbers.

2    4    6    8    12    24

10 A sticker book can fit 6 stickers on each page.  
8 out of 20 pages of the book are full.  
How many **more** stickers are needed to complete the sticker book?

9 What is the value of the triangle?

$7 \times \triangle = 8 \times \triangle$

11 Multiply these numbers together.

24 x 0	
4 x 6 x 3	
7 x 2 x 8	
125 x 1	
5 x 8 x 3	
6 x 4 x 8	

**Thursday**

12 For each multiplication, write 1 related division fact:

example:

8 x 7	56 ÷ 7 = 8
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6 x 4	
12 x 7	
11 x 9	
4 x 8	
9 x 5	
6 x 8	

13 Recognise and use factor pairs and commutativity in mental calculations.

a) Two **factors** of 12 add up to 8. What are they?

b) Tick the calculations that have the same answer to  $3 \times 4 \times 5$ .

$4 \times 5 \times 3$

$20 \times 3$

$6 \times 4 \times 2$

$6 \times 12$

$3 \times 20 \times 1$

14 Multiply 2 digit and 3 digit numbers by a 1 digit number using formal written layout.

Use written methods to complete these calculations. Show your working out:

$85 \times 3$	$62 \times 4$
$132 \times 5$	$264 \times 3$

**Friday**

15 Ella needs 20 cupcakes for her birthday party. The following shops sell them at the following prices:

**Party Cakes 4 U**



5 cupcakes for 40p

**Cool Cupcakes**



4 cupcakes for 30p

Which shop would it be cheapest to buy the cakes at? Show your working out.

16 She also wants to buy 6 margarita pizzas and 4 pepperoni.

**Pizza House**



Margarita 3 for £4  
Pepperoni £2 each

**Pizza Palace**

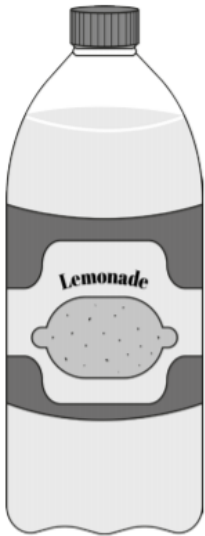


Margarita 75p each  
Pepperoni 2 for £5

Which shop would it be cheapest to buy the pizzas at? Show your working out.

17

There are 7 guests coming to the party. She estimates that each guest, plus herself, will drink 500ml of lemonade each. How many litre bottles of lemonade will she need to buy. If each litre costs £1.50, how much will it cost altogether? Show your working out.



how many bottles of lemonade?	
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total cost	
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