Class 11 Maths

Mental Arithmetic:

In order to help you with all of your maths learning, it is important that you are practising your times tables regularly. If you have good times tables knowledge, you will find the questions below much easier as you can apply your knowledge to more difficult questions.

Remember to go on to Times Tables Rockstars regularly:

https://play.ttrockstars.com/auth

Your login is the same as the one you use in school.

Numberbots also uses the same login as TTRockstars. See the link below:

https://play.numbots.com/#/account/search-school

Division:

This week you need to think about how to answer the division questions using the methods we have used in school.

I have given you an example of how to answer each style of question and then you can attempt the questions below:

When dividing by 10, each digit mores one place value coulon to the night(the number -gets_smaller)	$2 \times ? = 14$ 14 ÷ 2 = 1?	$\frac{(17+4)-3}{21-3-7}$ 2-digit division	
$50 \div 10 = 5$ $H = 0$ $F_0 = 10$	$\frac{14 \div 2 = -}{2 \times 7 = 14}$		
When dividing by 100, each digit tritles the columns_to the right $500 \div 100 = 5$ H T 0 H T 0 = 5	Inverse $21 \div 3 = 7$	$\begin{array}{cccc} & 4 & 137 & 1 \times 4 = 4 \\ & -120 & (30 \times 4) & 10 \times 4 = 40 \\ & -120 & 20 \times 4 = 80 \\ & -16 & (4 \times 4) & 30 \times 4 = 120 \\ \end{array}$	
When dividing by 1,000 each digit mores three columns to the right $5000 \div 1000 = 5$ Th H TO Th H TO $5000 = 5$	$\frac{5121}{-21}(7) \times 3$ 2-digit division	Formal written method- chunking	

Division- Knowing	Division- Dividing by	Division- Using the	Division- 2-digit	Division- Chunking
your number facts	10, 100 and 1000	inverse		
Use your times tables	Calculate the answers	Use your known	Choose the method	Use the written
knowledge to help you	to the following using	multiplication and	that works best for	chunking method
quickly recall the	what you know about	division facts to help	you to help you to	above to help you to
answers to the	place value to help	you to calculate the	calculate the answers	calculate the answers
following questions:	you.	missing numbers.	to the following:	to the following:
1) 15 ÷ 3=	1) 30÷10	1) 3 x? = 12	1) 86÷2	1) 152 ÷6
2) 2 ÷ 2=	2) 400÷10	2) ? x 37 = 37	2) 88÷8	2) 162÷3
3) 20÷10=	3) 530÷10	3) ?÷5=7	3) 44÷2	3) 182÷8
4) 50 ÷ 5=	4) 100÷100	4) 64 ÷? = 8	4) 74÷2	4) 253÷5
5) 16 ÷ 4=	5) 210÷10	5) 2 =? ÷ 16	5) 54÷3	5) 217÷9
6) 24 ÷ 6=	6) ?÷10=34	6) 7 x 20 =	6) 91÷7	If you answered these
7) 36÷3=	7) 570 ÷? =57	7) 4 x 3 x 7=		questions correctly,
8) 28÷7=	8) 4,320÷10	8) 64 ÷ 4=	For the following	have a go at
9) 48÷6=	9) 2,000÷1000	9) ?÷9=13	questions, you need to	answering the
10) 32 ÷ 4=	<i>10</i>) 3,400÷100	10) 14 x 21 =	first work out the	following:
11) 54÷9=			answers in the	
12) 56 ÷ 8=	Hint: think about what	It might be useful if	brackets then divide	Challenge
	happens to a number	you use the methods	this by the number	6) 585 ÷ 3
You might want to get	when you are dividing.	you used last week	shown.	7) 1896÷6
someone at home to	Should it get smaller or	during your	1) (40+52)÷2	8) 2443÷7
time you or to read the	bigger? Which way	multiplication recap.	2) (35x2) ÷5	9) 4371 ÷6
questions out to you.	will the number move		3) (60+12)÷3	10) 2302÷4
	in the place value		4) (23+19) ÷4	
	chart?			

Extension:

If you complete all of these calculations, you can have a go at these word problems below:

Hint: You may need to use other operations (+, -, x) as well as division to answer some of the questions. Remember to use some of the methods used above to help you answer the questions.

- 1. Some children share 12 strawberries. Each child gets 3 strawberries. How many children are there?
- 2. Kate's teacher has asked her to arrange 40 chairs in 5 equal rows in the hall. How many chairs will there be in each row?
- 3. Mr White wants 18 eggs. Eggs are sold in boxes of 3. How many boxes of eggs will Mr White need?
- 4. There are 32 monkeys in a zoo. Each cage can hold 4 monkeys. How many monkey cages does the zoo need?
- 5. Alan is reading a book with 315 pages. If Alan wants to read the same number of pages every day, how many pages would Alan have to read each day to finish in 15 days?
- 6. There are seventeen boys and fourteen girls in a class. The children sit at tables of 4. How many tables are needed?
- 7. In the cinema you see that the 504 seats are divided into 7 equal sections. How many seats are there in each section?
- 8. Eddie collects Pokémon cards. He has 462. He decides to share them equally between himself and his two older brothers. How many will each boy get?
- 9. A sports shop has 45 boxes of tennis balls, each with 3 tennis balls. It also has 129 tennis balls which are put into boxes of 3 tennis balls. How many boxes are there altogether?
- 10. The headteacher is taking all of Key Stage 2 on a trip to the seaside. There will be 210 children and 24 adults going. How many 42-seater buses will he need to use?