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

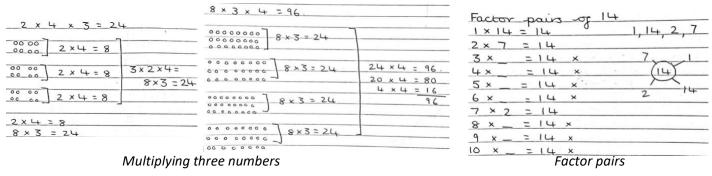Your login is the same as the one you use in school.

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

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

Multiplication:

This week you will need to work out multiplication questions using the methods from school.

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

Multiplying three numbers

Factor pairs

Written methods

Mental methods

Multiplication – Times tables	Multiplication- multiplying three numbers	Multiplication- factor pairs	Multiplication- Written methods	Multiplication- Mental methods
Use your times tables knowledge to help you quickly recall the answers to the following questions: 1) 2 x 10 = 2) 3 x 12 = 3) 12 x 5 = 4) 7 x 11 = 5) 4 x 9 = 6) 8 x 8 = 7) 7 x 5 = 8) 6 x 8 = 9) 3 x 4 = 10) 1 x 2 = 11) 7 x 8 = 12) 11 x 6 = *You might want to get someone at home to time you or to read the questions out to you.*	Calculate the answers to the following and then tell me what you notice (try and use mathematical vocabulary if you can): *e.g. 1 x 2 x 3= 6* *1 x 2 = 2* *2 x 3 =6* 1) 5 × 2 × 6 2) 6 x 5 x 2 3) 8 × 4 × 5 4) 4 x 5 x 8 5) 2 × 3 × 6 6) 2 x 6 x 3 7) 1 x 3 x 8 8) 8 x 1 x 3 *Remember to partition the numbers if you need to. This will help you to get your answer.*	Factor pairs are a whole number that multiplies by another number to make a product. *Can you find as many factor pairs as you can for the following numbers?* 1) 12 2) 36 3) 24 4) 18 5) 48 6) 56 7) 35 8) 28 *It can often be useful to start with 1 x and then work upwards to see if you can find any others e.g. 2 x, 3 x, 4x.*	Choose the best written method above that works best for you to help you to calculate the answers to the following: 1) 16 × 7 2) 34 × 6 3) 27 × 4 4) 36 × 3 5) 24 × 6 6) 45 × 4 7) 245 x 4 8) 203 x 3 9) 814 x 5 10) 234 x 36 *Hint: It may be easier to use the grid method for larger numbers.*	Use the **mental** methods above to help you to calculate the answers to the following: 1) 20 x 4= 2) 8 x 15 = 3) 22 x 8 = 4) 13 x 9= 5) 11 x 21= Can you think of any other calculations and work out their answers?

Extension:

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

Hint: You may need to use some of the methods you have practised above to help you to answer the questions.

1) There are 16 fireworks in a box. Sam has 7 boxes, how many fireworks does he have altogether?

2) It takes Laura 18 minutes to walk to school each day. She walked to school and back every day for 5 days. How many minutes did Laura spend walking **to** and **from** school in one week?

3) Six children have competed their sticker card. Each card holds 24 stickers. How many stickers has the teacher given out?

4) 5 boys each travel 43 miles on their bikes. How many miles have they travelled altogether?

5) There are 932 calories in a chocolate bar. How many calories are in 4 chocolate bars? How many in 12 chocolate bars?