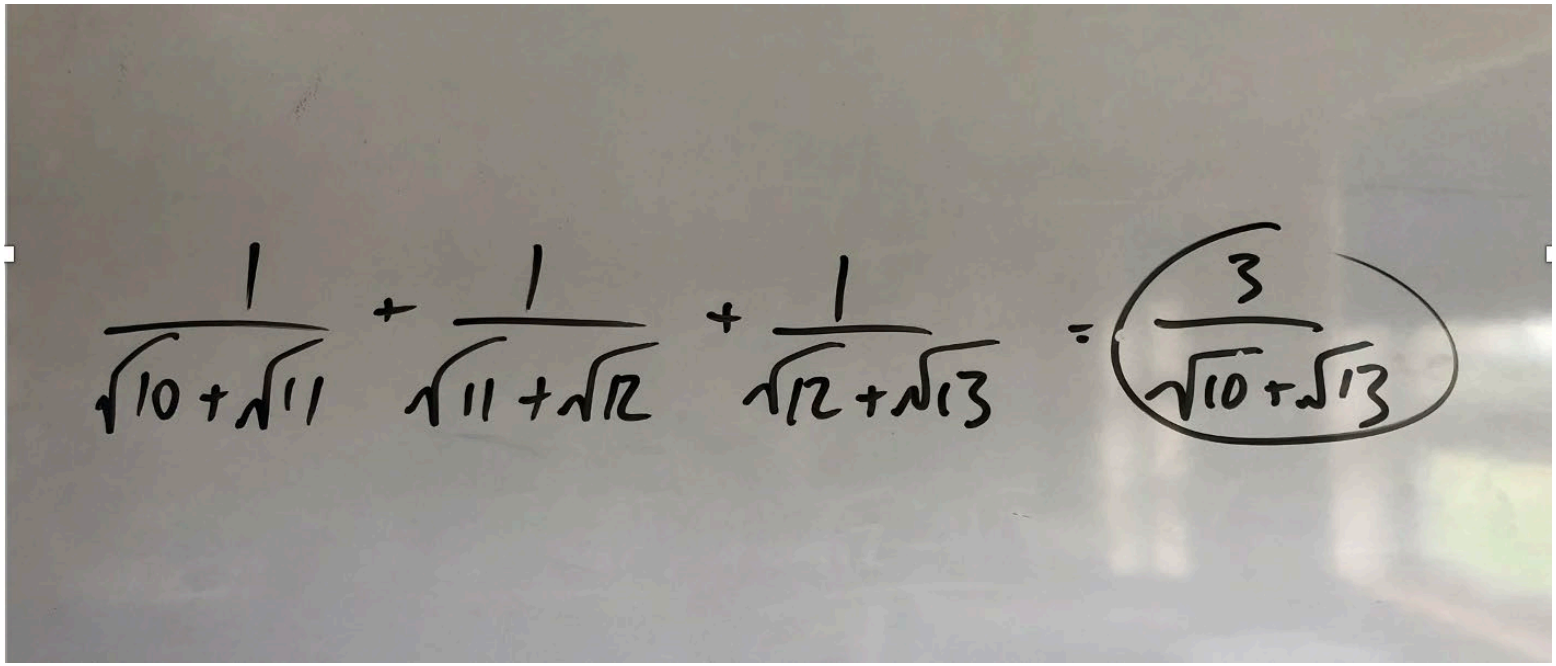
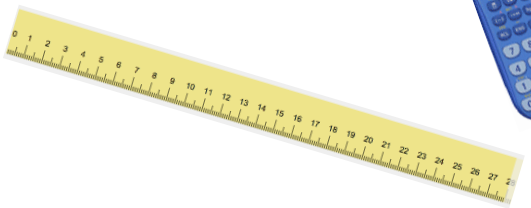
Mathematics Department

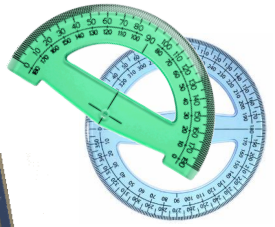


Head of Maths: Mrs A Davies adavies@stpetershuntingdon.org
Assistant Head of Maths: Mr M Arhin marhin@stpetershuntingdon.org

Equipment

- Pen (blue or black)
- Pencil
- Scientific Calculator
- Ruler (15cm is fine)
- Geometry Set (compass, protractor)
- Green Pen





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Simple pencil cases containing pens, pencils, a small ruler and protractor can be purchased via ParentPay.
Ordered equipment will be handed out to students once they have started at St Peter's.
Please note that calculators and geometry sets are not used in Year 7 but will be needed in Year 8.

Topics to be covered in Year 7

Angle rules

Sequences

Calculations with fractions

Adding with negative numbers

Four operations

Calculations involving percentages

Find missing angles

Area of 2D shapes

Introduction to algebra

Number properties

Calculations with decimals

Expand brackets

Constructions

Factorise

Perimeter of 2D shapes

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In year 7 you will have three hours of mathematics per week.

Timestable Rockstar

1	$10 \times 3 =$ _____	21	$10 \times 2 =$ _____	41	$2 \times 10 =$ _____
2	$7 \times 9 =$ _____	22	$5 \times 5 =$ _____	42	$9 \times 10 =$ _____
3	$4 \times 12 =$ _____	23	$6 \times 11 =$ _____	43	$6 \times 12 =$ _____
4	$11 \times 9 =$ _____	24	$9 \times 12 =$ _____	44	$11 \times 9 =$ _____
5	$9 \times 3 =$ _____	25	$7 \times 6 =$ _____	45	$9 \times 12 =$ _____
6	$11 \times 11 =$ _____	26	$4 \times 8 =$ _____	46	$1 \times 10 =$ _____
7	$8 \times 1 =$ _____	27	$12 \times 7 =$ _____	47	$12 \times 12 =$ _____
8	$12 \times 4 =$ _____	28	$4 \times 7 =$ _____	48	$3 \times 3 =$ _____
9	$10 \times 11 =$ _____	29	$3 \times 1 =$ _____	49	$1 \times 3 =$ _____
10	$8 \times 12 =$ _____	30	$12 \times 2 =$ _____	50	$10 \times 11 =$ _____

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At St Peter's School we keep practising timestables. We would like all our students to be able to do their timestables as fast as possible. If you know your timestables well, you will find the rest much easier.

Close to 9000

Take four copies of the number 1234.
Re-arrange the digits in each number so that the four numbers sum as close as possible to 9000.

9000?

$$\begin{array}{r} 1234 \\ 1234 \\ 1234 \\ +\ 1234 \\ \hline 4946 \end{array}$$

$$\begin{array}{r} 4321 \\ 3241 \\ 1234 \\ +\ 1234 \\ \hline 10030 \end{array}$$

9000?

It is impossible to get the total be exactly 9000.
Can you show this?

Hint

X

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The next few slides contain maths problems similar to the ones you might be asked to work on in lessons. Please have a go at each one and bring/take your workings out to your first maths lesson.

Always, sometimes or never true?

$$\begin{array}{r} ABC \\ DEF \\ +\ GHI \\ \hline \end{array} = \begin{array}{r} DEI \\ GHC \\ +\ ABF \\ \hline \end{array}$$

$$\begin{array}{r} ABC \\ DEF \\ +\ GHI \\ \hline \end{array} = \begin{array}{r} BAC \\ EFD \\ +\ IGH \\ \hline \end{array}$$

If a statement is “sometimes true”, determine which values of the letters it is true for.

Write a number…

Write a number which satisfies each set of the given properties.

A multiple of 7 An even number	A multiple of 9 An odd number Greater than 40	A multiple of 2 NOT a multiple of 4
A multiple of 5 A multiple of 3 Greater than 20	A multiple of 2 A multiple of 3 Greater than 30	A multiple of 3 NOT a multiple of 9 Greater than 35

Number Sort

	Square number	Multiple of 5	Factor of 48	Factor of 24
Odd				
Even				
Multiple of 3				
Factor of 100				

9 100 15 8 24 35 6 3

49 25 36 4 2 1 10 12