

Year 5 maths newsletter



Summer

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This half-term will be split into two maths topics 'decimals' and 'shape'.

Any queries please email either:
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Decimals

Year 5 will continue with the decimal unit from the previous half-term.

Adding decimals

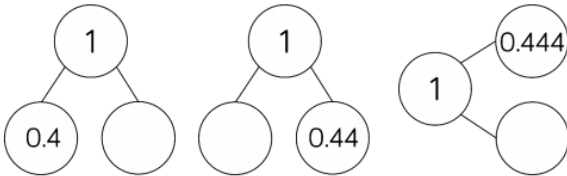
To begin adding decimals, Year 5 focus on adding two decimals without crossing 1 whole.

$$0.45 + 0.5$$

$$0.45 + 0.05$$

After to support them in making a decimal number a whole.

Then, they focus on adding numbers with the same decimal places.



Ones	Tenths	Hundredths
1 1	0.1 0.1	0.001 0.001 0.001
1 1	0.1 0.1	0.001 0.001
1 1	0.1	0.001 0.001 0.001

$$\begin{array}{r} 3.45 \\ + 4.14 \\ \hline \end{array}$$

Subtracting decimals

Children complete the same steps for subtraction that they did addition.

Subtraction without crossing the whole.

$$0.584 - 0.154 =$$

$$0.684 - 0.254 =$$

$$0.685 - 0.255 =$$

Subtracti

Subtraction with the same decimal places.

$$1.031 - 0.23 = 0.801$$

Ones	Tenths	Hundredths
1 1	0.1	0.001 0.001
1 1	0.1 0.1	0.001

$$\begin{array}{r} 4.33 \\ - 2.14 \\ \hline \end{array}$$

$$\begin{array}{r} 6.06 \\ - 3.7 \\ \hline \end{array} \quad \begin{array}{r} 4.7 \\ - 3.825 \\ \hline \end{array}$$

Multiplying and dividing decimals by 10, 100 and 1,000

Prior learning of moving a number to the left if it's getting bigger or to the right for smaller is consolidated when multiplying and dividing decimals.

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
	3	8		
3	8			

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
	0	3	8	
3	8			

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
	0	0	3	8
3	8			

Shape

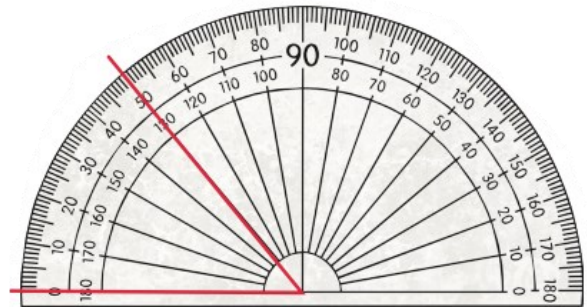
Measuring angles in degrees

Year 5 revisit acute and obtuse angles. They recognise a full turn as 360 degrees, a half-turn as 180 degrees and a quarter as 90 degrees.



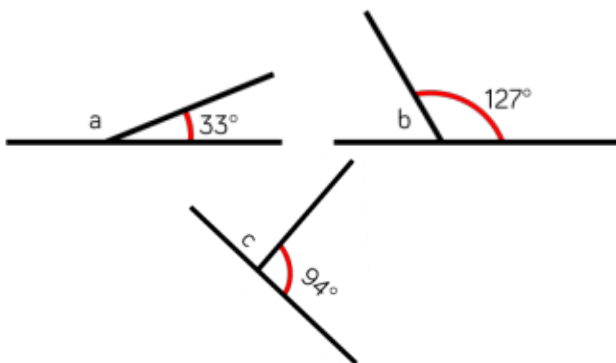
Measuring with a protractor

Year 5 are taught to measure with a protractor for the first time.



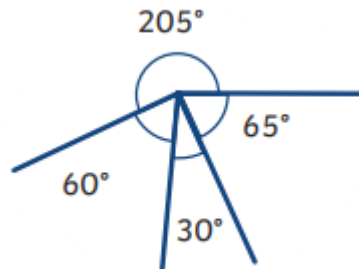
Calculating angles on a straight line.

Children learn that angles on a straight line always total 180° and use this to work out missing angles.



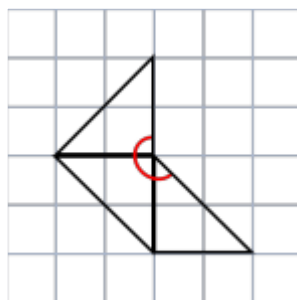
Calculating angles around a point.

Children use knowledge that there are 360° in a full turn and use this to work out missing angles.



Lengths and angles in shapes

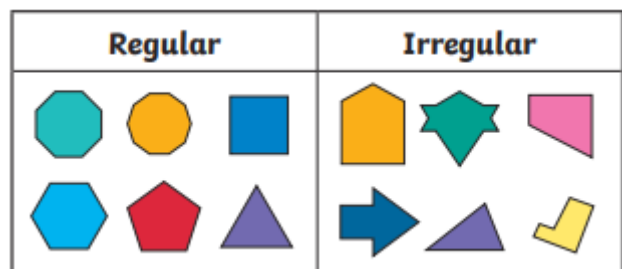
Children look at squares and rectangles on a grid to identify right angles in shapes.



Regular and irregular polygons

A polygon is any two-dimensional shape formed with straight lines.

In an irregular polygon, the sides and angles are not equal.



Vocabulary

The following vocabulary is used in the classroom to support learning. Please continue to support your child at home by using the same vocabulary.

decimals	shape
tenths, hundredths, thousandths	angle, right angle.
decimal equivalents	acute, obtuse, reflex
decimal point	parallel, perpendicular
rounding	regular, irregular shapes
place value	horizontal, vertical
part-whole model	vertex, apex

Further support at home

To support your child at home, we encourage the use of the classroom vocabulary and the same methods/strategies of calculation.

When working with your child at home, you can ask them the following question starters to further demonstrate their understanding.

How do you know...

Can you estimate...

What pattern do you notice?

Are there any patterns in sequence of square numbers?

What other strategies can we use to work out?

What is the difference between perimeter and area?

What strategies can we use to work out perimeter?

What properties of these shapes do you need to know to help you work this out?

Times tables practise

Times Table Rock Stars is a fun and interactive way for your child to practise their times tables at home. By Year 5, children will have been taught all their times tables up to 12 X 12. Please continue to practise and support your child with these at home.

<https://trockstars.com/>

If you have any questions on how to support your child at home or need any log in information, please contact your child's class teacher.