Maths Planning and Ideas

Dedicated to Excellence

Week Commencing: 30.03.20

Year Group: Year 6

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Arithmetic LC: Can you use number bonds to make different totals?	LC: Can you calculate angles within a triangle?	LC: Can you calculate angles within a quadrilateral?	LC: Can you identify different types of angles?	LC: Can you find real life examples of different types of angles?
Activity	Starter: Complete the 10 mental maths questions for Monday (provided below)	Starter: Complete the 10 mental maths questions for Tuesday (provided below)	Starter: Complete the 10 mental maths questions for Wednesday (provided below)	Starter: Complete the 10 mental maths questions for Thursday (provided below)	Starter: Complete the 10 mental maths questions for Friday (provided below)
	Main Activity Chn should recap number facts and bonds that they are already familiar with, e.g. Bonds to 10 and 20 10 bonds to 100 Numbers that add to 500 and 1000 Doubles and halves up to 100	Main Activity Chn should recap what they have learnt this half term about angles within a triangle – these add up to 180° Chn to watch the video to recap different types of triangles and their properties https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/zggsfrd	Main Activity Similarly to yesterday, chn should recap what they already know: • Angles on a straight line add up to 180° • Angles around a point add up to 360° • Opposing angles are equal to each other. • Angles within a triangle	Main Activity Chn to watch the video on different types of angles (up to 1:52) https://www.youtube.com/watch?v=Gl70VDrHXhE Chn to draw an example of each angle type in their book: • An acute angle • An obtuse angle	Main Activity Chn to quickly recap the angles that they have already covered in previous session — use the prompts in their books to help with this. Chn to spend time
	Practise some quick mental questions with a parent or a friend, e.g. what is 30+40 / what is double 18?	Complete the questions provided below, including some	 add up to 180° Angles within a quadrilateral add up to 360° 	A reflex angleA right angle	cutting out and designing their own angle eaters using

Independent Activity

Have a go at making chosen totals in a range of different ways, e.g. find 5 different ways to make 50 / find 5 different ways that make 100.

Challenge yourself to use all four operations to do this, e.g. add, subtract, multiply and divide.

Have a go at the missing value questions below.

of the trickier problem solving examples – these follow the usual format of Fluency/Reasoning/Problem Solving/Dive Deeper with which the chn are familiar.

Chn should spend time researching quadrilaterals and having a go at drawing their own versions, both regular and irregular.

Independent Activity

Complete the questions provided below, including some of the trickier problem solving examples – these follow the usual format of Fluency/Reasoning/Problem Solving/Dive Deeper with which the chn are familiar.

Next to each picture, write down prompts and reminders about the sizes of these angles to refer back to later.

Independent Activity

Complete the questions provided below, including some of the trickier problem solving examples – these follow the usual format of Fluency/Reasoning/Problem Solving/Dive Deeper with which the chn are familiar.

the templates provided below.

Independent Activity

Use the angle eaters to complete an angle hunt within your house – try to find as many examples of each angle type and list where you found them or take a photo.

Remember, the angle eaters are there to help you identify 90° as a starting point – from this, you should be able to estimate if the angle you have found is bigger or smaller than 90°, 180° or 360°.

Starter Activities

Monday		Tuesday		Wednesday			Thursday		Friday	
1.	652 + 78,845	11.	6198 + 22,405	21.	223 + 32,154	31.	45,454 + 110,548	41.	15,450 + 781,000	
2.	1/4 x 2/3	12.	1/8 x 5/6	22.	1/3 x 2/3	32.	3/4 x 1/3	42.	4/5 x 3/8	
3.	45,497 - 235	13.	72,100 - 408	23.	65,302 - 200	33.	5612 - 217	43.	58,652 - 698	
4.	1/5 x 6	14.	1/7 x 3	24.	I/8 x 4	34.	1/3 x 7	44.	I/I0 x 69	
5.	8 x 9 + 12	15.	4 x 6 + 15	25.	10 x 7 + 41	35.	12 x 3 + 10	45.	6 x 7 + 125	
6.	160 - 12 x 2	16.	280 - 18 x 5	26.	350 - 17 x 4	36.	189 - 12 x 6	46.	200 - 13 x 6	
7.	Find 2/3 of 207	17.	Find 2/3 of 468	27.	Find 2/3 of 1413	37.	Find 2/3 of 1500	47.	Find 2/3 of 3000	
8.	Calculate 15% of 630	18.	Calculate 15% of 890	28.	Calculate 15% of 284	38.	Calculate 15% of 548	48.	Calculate 15% of 404	
9.	Write 3/10 as a decimal	19.	Write 7/10 as a decimal	29.	Write 9/10 as a decimal	39.	Write 7/10 as a decimal	49.	Write 1/10 as a decimal	
10.	11,835 ÷ 15	20.	6375 ÷ 15	30.	7980 ÷ 15	40.	9720 ÷ 15	50.	3480 ÷ 15	

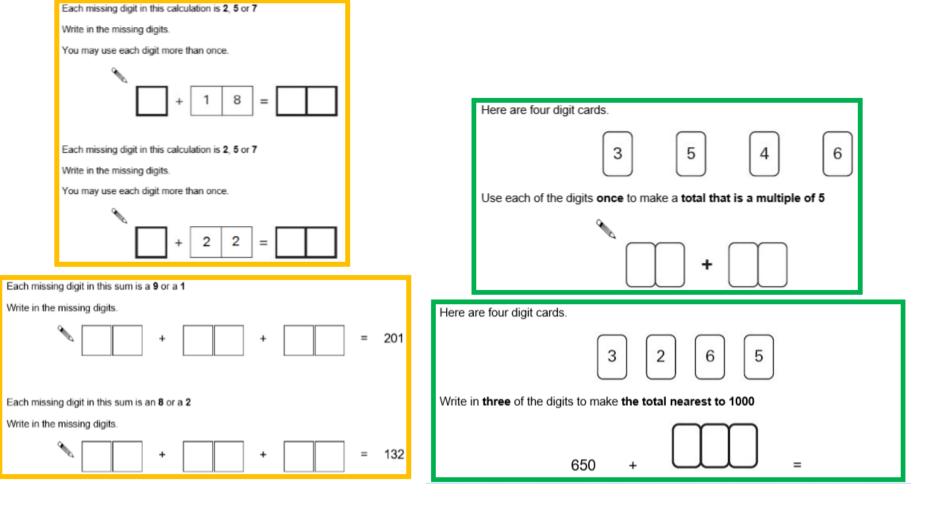
If you cannot print off these questions, please don't worry – simply have a go at writing the calculations and answers in your book or on a piece of paper!

Monday 30.03.20

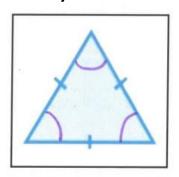
Write in the missing numbers.



Write in the missing numbers.



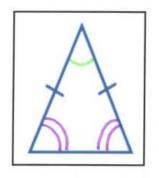
Tuesday 31.03.20



An Equilateral Triangle

- All sides are the same - All angles are equal I have an isosceles triangle. One angle measures 42 degrees.

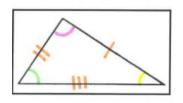
What could the other angles measure?



An Isasceles Triangle

- Two of the sides are equal
- Two of the angles are equal

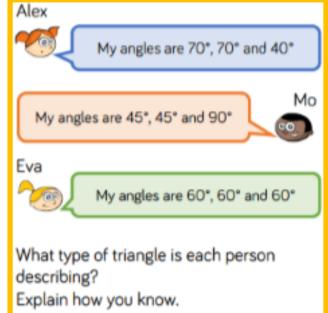


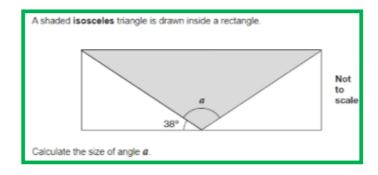


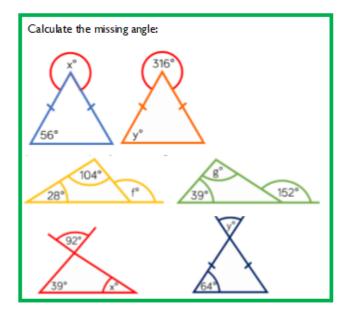
A Scalene Triangle

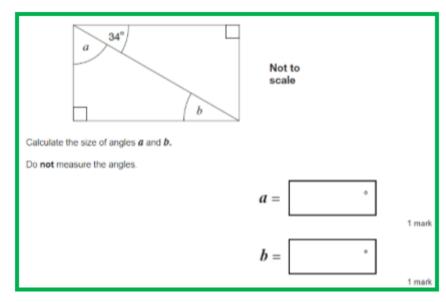
All sides are different.

All angles are different.

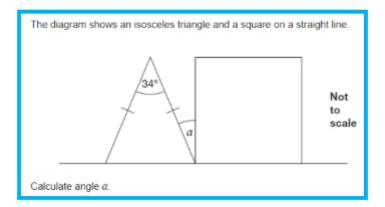


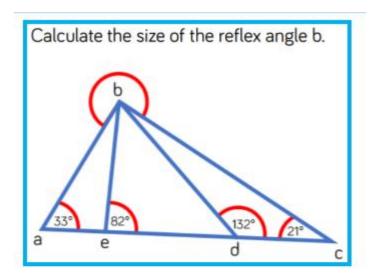


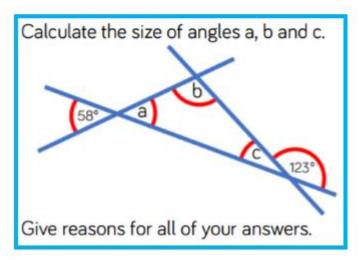




Now try a brain-buster or two:



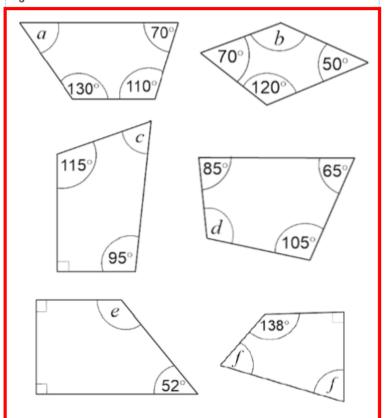


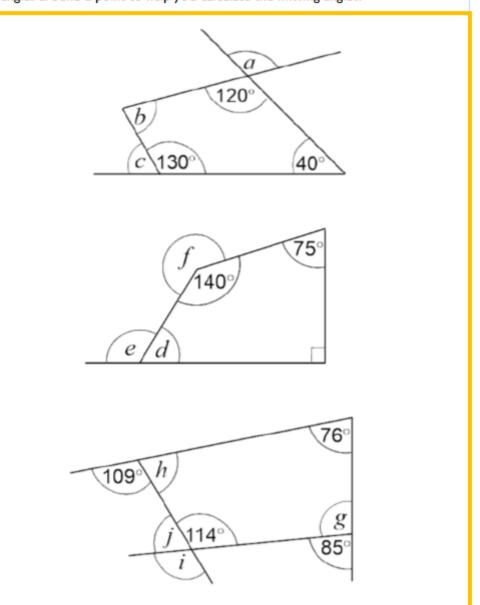


Wednesday 01.04.20

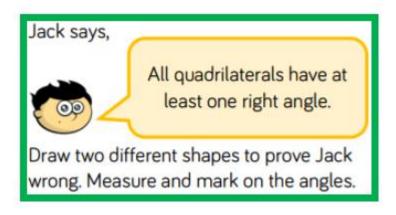
Use what you already know about angles on a straight line, opposing angles and angles around a point to help you calculate the missing angles:

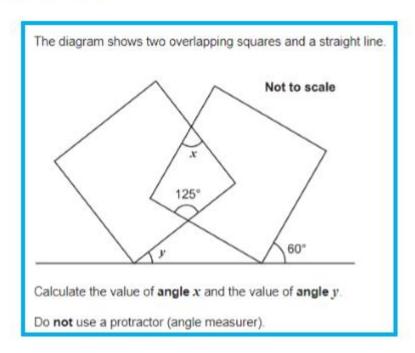
If the angles within a quadrilateral add up to 360°, can you work out the missing angles:



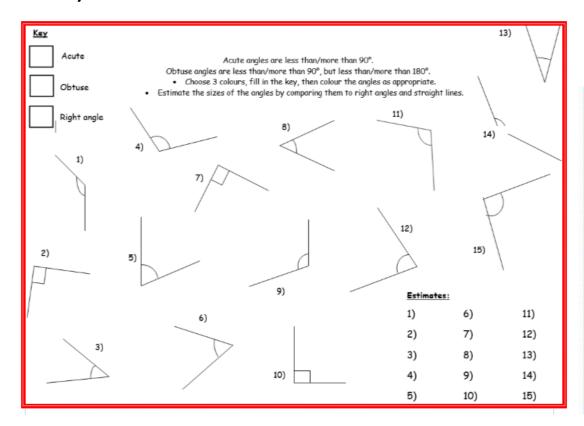


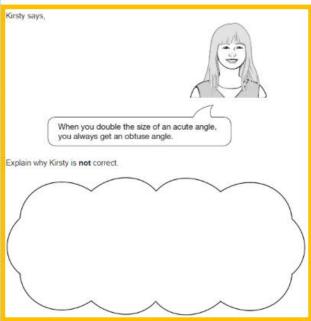
Try this brain-buster...

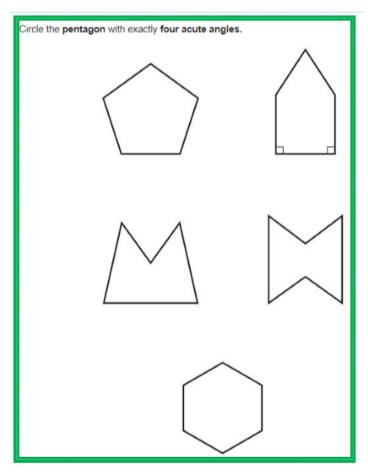


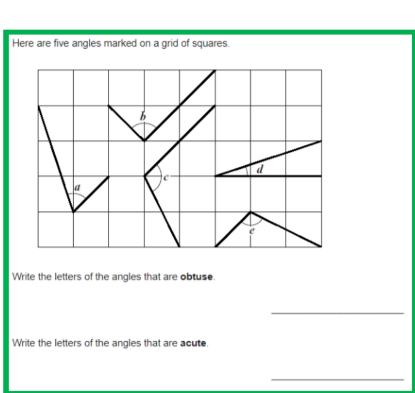


Thursday 02.04.20









Friday 03.04.20



Where can I complete further work?

<u>Twinkl</u> – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

<u>Classroom Secrets</u> – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

Primary Stars – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

<u>Top Marks</u> – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.