Viridis Schools The Federation of Orchard Primary School, Southwold Primary School, Hoxton Garden Primary School

Year 6: Numeracy Day 6

Each day, complete your times table starter. Then watch the video lesson, clicking through each round tab then complete the related worksheet.

Times table Starter

Write the two missing digits to make each of these **long multiplications** correct.

(multiply by the units first)

1.

		4	□
x		□	6
	2	4	6
	8	2	0
1	0	6	6

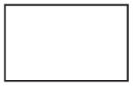
2.

		3	□
x		□	5
	1	6	0
1	2	8	0
1	4	4	0

Today, you will study different types of angles:

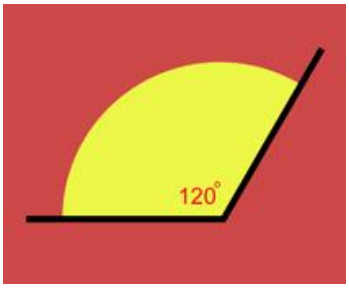
https://classroom.thenational.academy/lessons/to-recognise-obtuse-and-acute-angles-ccwk6c

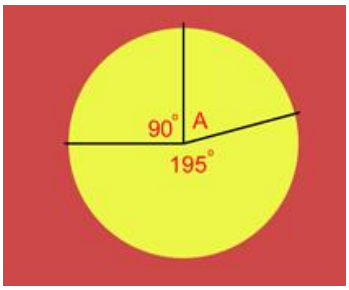
Angle Types

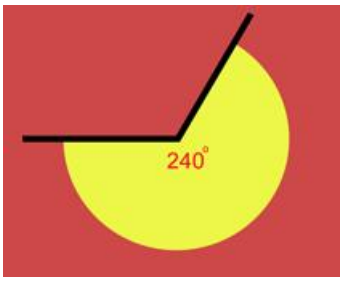
Right Angles Only	Acute Angles Only	Obtuse Angles Only	Both Acute and Obtuse Angles
 Shape 1	 Shape 3	 Shape 5	 Shape 7
 Shape 2	 Shape 4	 Shape 6	 Shape 8

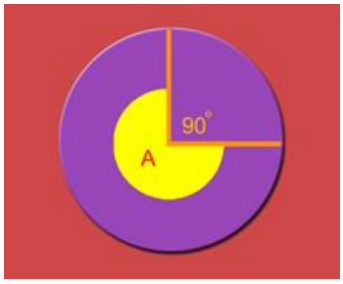
Task 1:

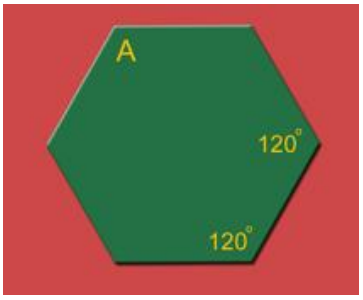
What are the angles in each picture and can you discuss why it is acute, obtuse or reflex?











Task 2:

2) Can you now draw the following shapes on a piece of paper:
- a shape that has two acute angles
-a shape that has at least one obtuse angle
-a shape that has two acute angles
-a shape that has a right angle
-a shape that has a right angle and an acute angle

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Year 6: Numeracy Day 7

Each day, complete your times table starter. Then watch the video lesson, clicking through each round tab then complete the related worksheet.

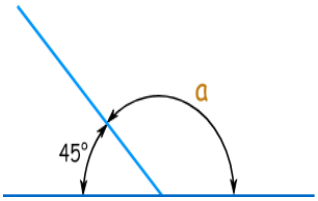
Times Tables Starter

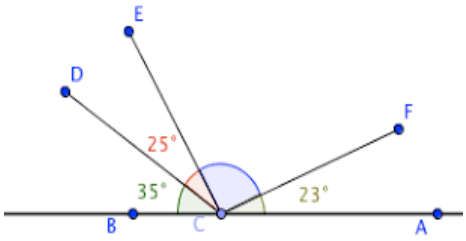
Spend 15 minutes on Times Tables Rock Stars - see if you can beat your top score!

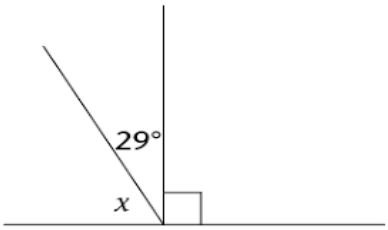
Now, you know a bit about Angles. Today, you will learn about finding missing angles.
https://classroom.thenational.academy/lessons/find-the-value-of-missing-angles-6cr3je

Task 1:

Can you find the missing angles in these following shapes? Remember angles in a straight line add up to 180 degrees and a full circle is 360 degrees.

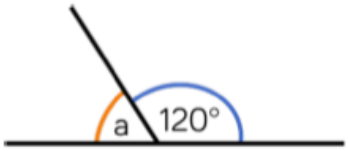






Task 2 (Reasoning questions):

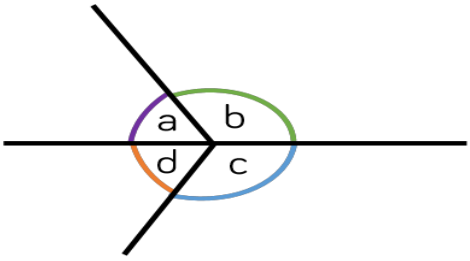
1) Anna says that the missing angle is 100. Do you agree? Why/why not?



2) There are five equal angles around a point. What is the size of each angle? Explain how you know.

Task 3 (Extension):

1) How many number sentences can you write from the images?



For example, a+b+c+d= 360. You can substitute a number as well for example, if “a” is 20 then 20+b+c+d= 360.

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Year 6: Numeracy Day 8

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Times Tables Starter

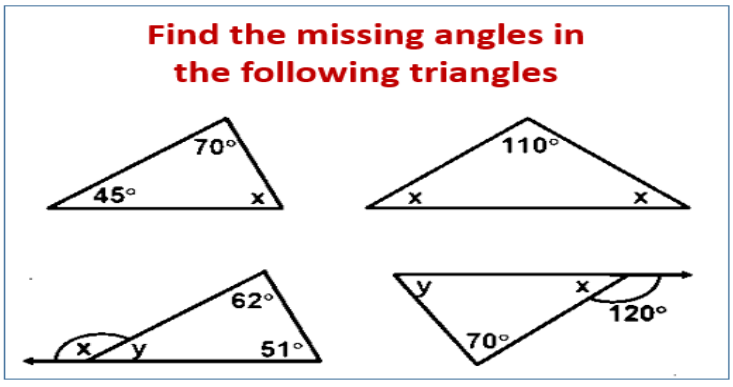
Can you shade in all the 8 times table? Discuss the pattern.

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Now, you know a bit about Angles. Today, you will learn about finding missing angles in triangle. Remember, angles in a triangle add up to 180 degrees.
https://classroom.thenational.academy/lessons/find-unknown-angles-in-triangles-6tgkcd

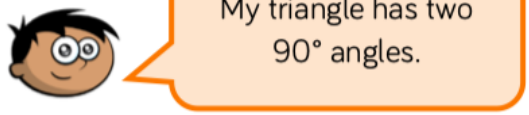
Task 1:

Can you find the missing angles in these following shapes? Remember angles in a triangle add up to 180 degrees.



Task 2 (Reasoning questions):

1. Amir says,



Can Amir be correct? Can you demonstrate this?

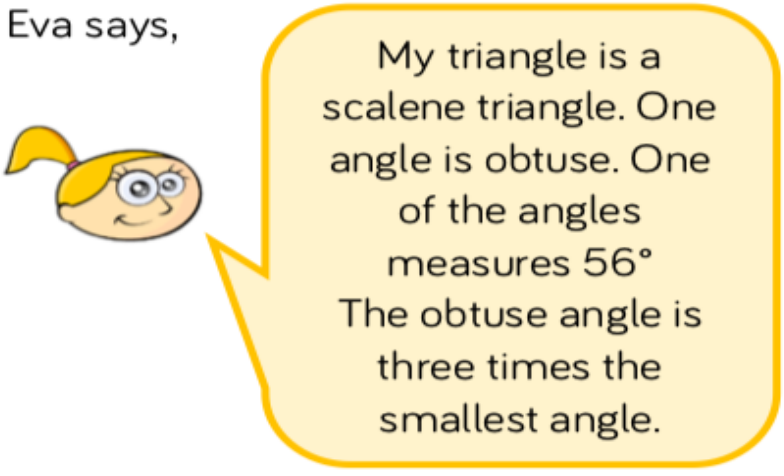
2. True or False?

A triangle can never have 3 acute angles.

3. Does the size of the triangle matter? Explain fully.

Task 3 (Extension):

Eva says,



Work out the size of each of the angles in the triangle.

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Year 6: Numeracy Day 9

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Times Tables Starter

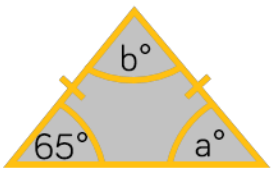
Times Tables Recall Card 1a

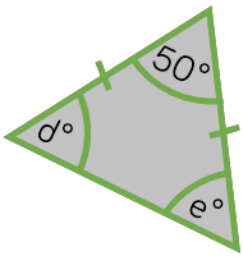
5 × 4 ☐	4 × ☐ = 12
4 × 4 ☐	8 × 4 ☐	4 × ☐ = 40
5 × 4 ☐	2 × 4 ☐	4 × ☐ = 48
6 × 4 ☐	6 × 4 ☐	4 × ☐ = 36
7 × 4 ☐	11 × 4 ☐	4 × ☐ = 20
8 × 4 ☐	7 × 4 ☐	4 × ☐ = 24
9 × 4 ☐	9 × 4 ☐	4 × ☐ = 16

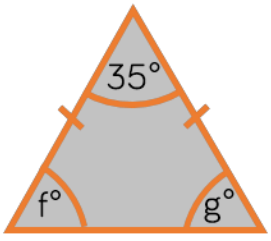
Today, you will revise finding missing angles in a triangle. Don't forget angles in a triangle add up to 180 degrees.
https://classroom.thenational.academy/lessons/find-unknown-angles-in-triangles-6tgkcd

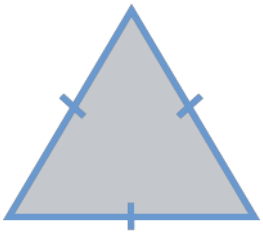
Task 1:

1) Calculate the missing angles in the isosceles triangles.





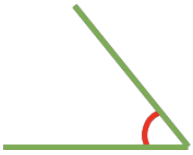


2) 

What type of triangle is this?
What will the size of each angle be? How do you know?
Will this always be the same for this type of triangle?
Explain your answer.

Task 2 (Reasoning questions):

3) Alex measures this angle:

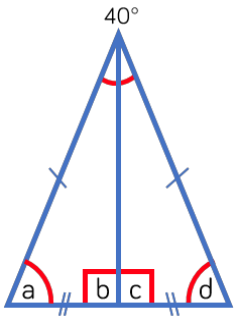


She says it is 130°
Explain what she has done wrong.

4) I have an isosceles triangle. One angle measures 42 degrees. What could the other angles measure?

Task 3 (Extension):

5) How many sentences can you write to express the relationships between the angles in the triangles?
One has been done for you.



40° + a + d = 180°

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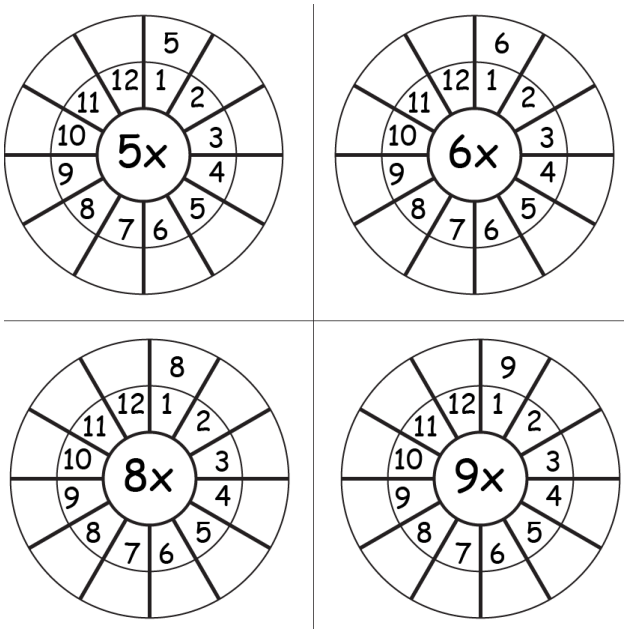
Year 6: Numeracy Day 10

Each day, complete your times table starter. Then watch the video lesson, clicking through each round tab then complete the related worksheet.

Times Tables Starter

Fill this in on a piece of paper- do it as fast as you can. You do not need to follow the layout.

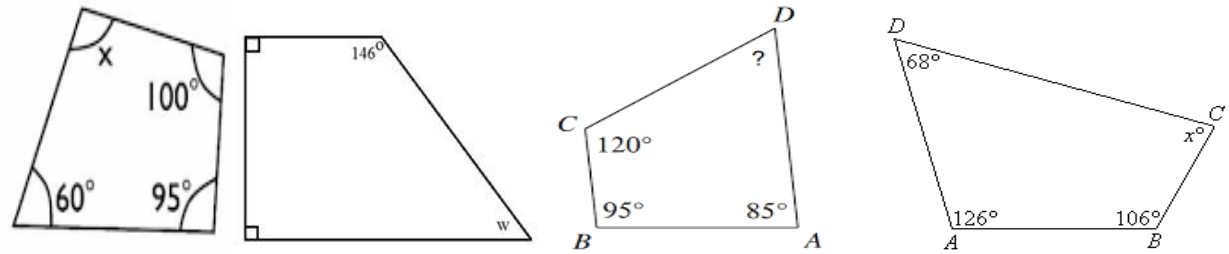


Today, you will learn about finding missing angles in quadrilaterals. Remember, angles in a quadrilateral add up to 360 degrees.

https://classroom.thenational.academy/lessons/find-the-value-of-missing-angles-in-quadrilaterals-cdgk0r

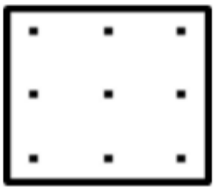
Task 1:

Can you find the missing angles in these following shapes?



Task 2 (Reasoning questions):

How many quadrilaterals can you make on the geoboard?



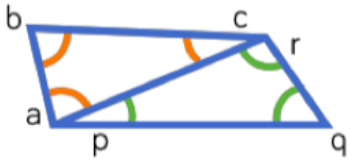
Identify the names of the different quadrilaterals.

What do you notice about the angles in certain quadrilaterals?

If your geoboard was 4 × 4, would you be able to make any different quadrilaterals?

Task 3 (Extension):

This quadrilateral is split into two triangles.



Use your knowledge of angles in a triangle to find the sum of angles in a quadrilateral.

Split other quadrilaterals into triangles too.
What do you notice?