Maths Planning and Ideas

Week Commencing: 6th July 2020

Year Group: 4

Mathematical Focus: Angles, Triangle and Quadrilaterals

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Identify Angles	Compare and Order Angles	Triangles	Quadrilaterals	Friday Maths Challenge
Activity	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 11 Lesson 1 https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 11 Lesson 2 https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 11 Lesson 3 https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 11 Lesson 4 https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 11 Lesson 5 – Daily Challenge https://whiterosemaths.com/homelearning/year-4/ Good luck!

	Answers: Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-1-Answers-Identify-angles.pdf No peeking until after you have had a go.	**Answers:** Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-2-Answers-Compare-and-order-angles.pdf No peeking until after you have had a go.	**Answers:** Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-3-Answers-Triangles.pdf No peeking until after you have had a go.	**Answers:** Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-4-Answers-Quadrilaterals.pdf No peeking until after you have had a go.	

06.07.2020

LC: Can you identify angles?

Identify angles

White Rose Maths

1 Complete the sentences.

Use the word bank to help you.

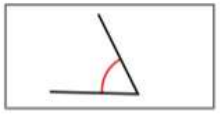
90	180	greater	less

a) A right angle is ☐ degrees.

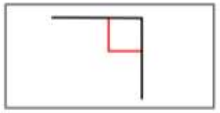
b) An acute angle is _____ than ☐ degrees.

c) An obtuse angle is _____ than ☐ degrees but less than ☐ degrees.

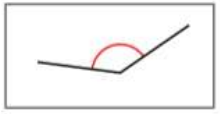
2 Match the angles to the labels.



right angle



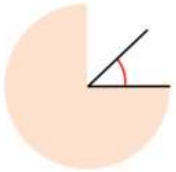
acute angle



obtuse angle

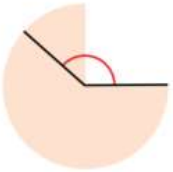
3 Label the angles: acute, obtuse or right angle.

a)



_____

d)



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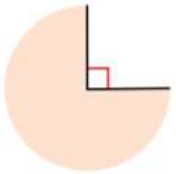
b)

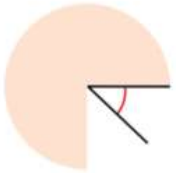


_____

e)

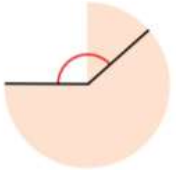
_____

c)



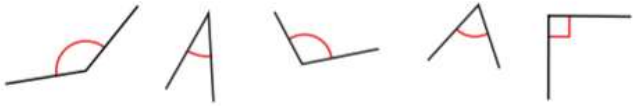
_____

f)



_____

4 Tick all the acute angles.



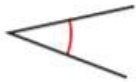
5 Tick all the obtuse angles.

6 Label the angles: acute, obtuse or right angle.

a)

_____

c)

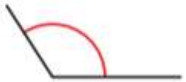


_____

b)

_____

d)



_____

7 Is the angle acute, obtuse or a right angle?

a) 35° _____

b) 99° _____

c) 90° _____

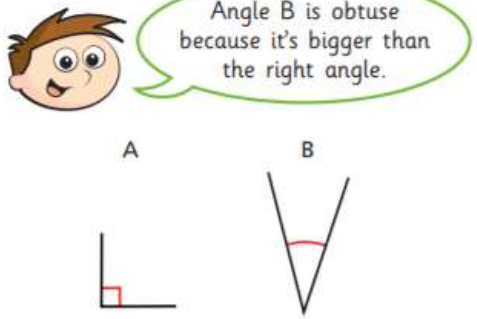
d) 89° _____

e) 121° _____

f) 179° _____

How do you know?

8



Do you agree with Teddy? _____

Explain your answer.

9 Are the statements always true, sometimes true or never true?

Explain your answer.

a) An obtuse angle is a greater turn than an acute angle.

_____

b) An acute angle is a greater turn than a right angle turn.

_____

c) If you turn through two acute angles you will have turned through an obtuse angle.

_____

07.07.2020

LC: Can you make compare and order angles?

Compare and order angles

White Rose Maths

1 Here are two angles.

a) Which angle is obtuse? _____

b) Which angle is acute? _____

How do you know?

2 Here are two angles.

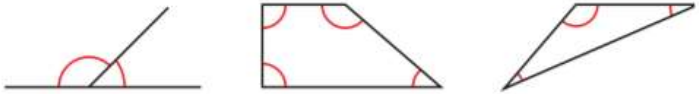
a) What type of angle is angle X? _____

b) What type of angle is angle Y? _____

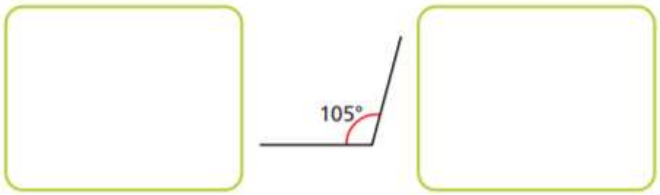
c) Which angle is smaller? _____

How do you know?

3 Circle the greatest angle in each diagram.



4 Here is an angle.



a) Draw a smaller angle than 105° in the box on the left.

b) Draw a greater angle than 105° in the box on the right.

c) Is this statement true or false?

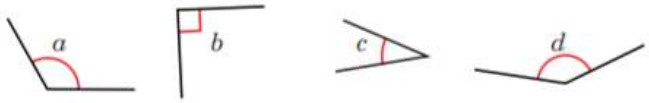
The angles are in ascending order of size.

_____

Explain your answer.

5 Order the angles from greatest to smallest.

a)

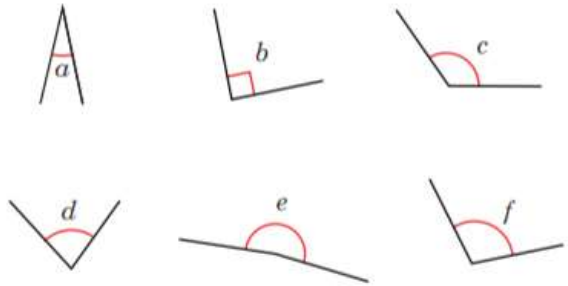


_____

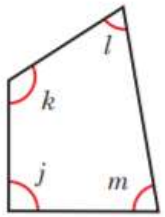
b)

c)

6 Compare and order the angles from smallest to greatest.



7 Four angles are labelled in the quadrilateral.

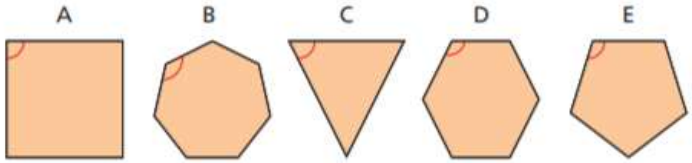


a) Which of the angles are acute angles?

b) Which of the angles are obtuse angles?

c) Write the angles in order of size, starting with the smallest.

8 An interior angle is marked in each polygon.



Order the interior angles of the polygons from smallest to greatest.

What do you notice about the number of sides a polygon has and the size of its interior angle?

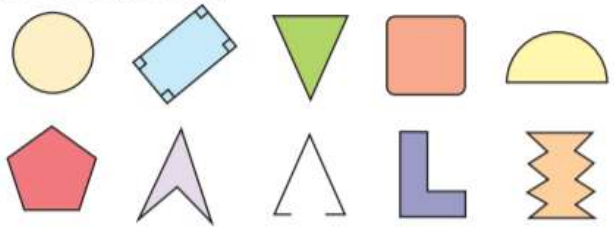
08.07.2020

LC: Can you identify and classify triangles?

Triangles

White Rose Maths

1 Here are some shapes.



a) Tick the polygons.

b) Talk to a partner about the shapes you have not ticked.
Why are they not polygons?

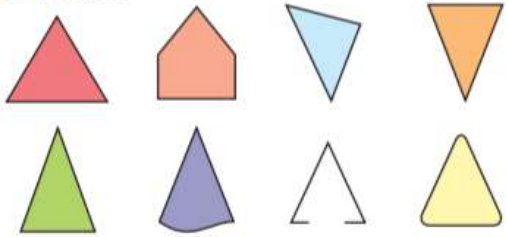
c) Write a definition of a polygon.

_____

_____

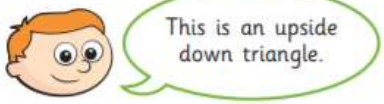
Compare your definition with a partner's.

2 Tick the triangles.



For any shapes you have not ticked, talk to a partner about why somebody might think they are triangles.

3 Ron is classifying triangles.



a) Ron is incorrect.

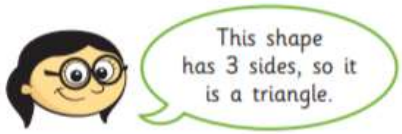
Explain why.

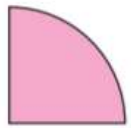
_____

_____

b) What type of triangle is it? _____

4 Annie is identifying shapes.





Do you agree with Annie? _____

Explain your answer.

_____

_____

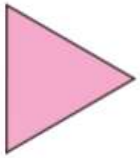
5 Match the type of triangle to the definition.

scalene	2 sides and 2 angles equal
equilateral	no sides or angles equal
isosceles	all sides and all angles equal

6 Label each triangle as either equilateral, isosceles or scalene.

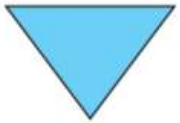
You will need to measure the side lengths.

A

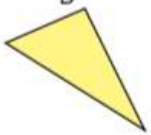


B

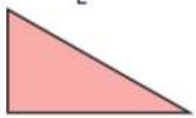
C



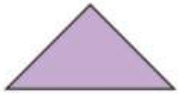
D



E



F



7 Draw each triangle in the grid.

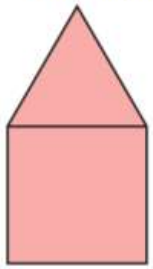
a) isosceles **b)** right-angled **c)** scalene

Which triangle was hardest to draw?

8 The diagram shows an equilateral triangle and a square.

The perimeter of the square is 100 cm.

Work out the perimeter of the compound shape.



perimeter = ☐ cm

09.07.2020

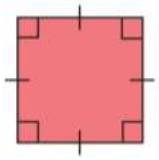
LC: Can you identify and classify quadrilaterals?

Quadrilaterals

1 Use the word bank to label each quadrilateral.

rhombus | parallelogram | trapezium | rectangle | square

a)

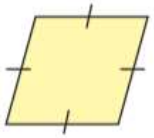


_____

b)

_____

c)



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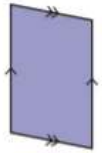
d)



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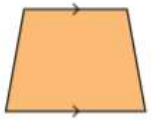
e)

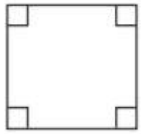


_____

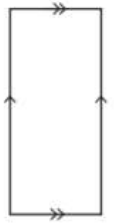
How did you know which shape was which?

2 Here are some quadrilaterals.

A



B



C

D

E

a) Mark any right angles on the shapes.
One shape has been done for you.

b) Mark any pairs of parallel lines.
One shape has been done for you.

c) Which shapes do not have any right angles?

_____

d) Which shapes have two pairs of parallel lines?

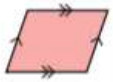
_____

e) Which shapes have four equal sides?

_____

Compare answers with a partner.

3 Complete the table.

Shape	Polygon?	Number of sides	Number of right angles	Number of pairs of parallel sides	Number of equal sides
	Yes	4	4	2	2 pairs
					2
					
					
					
					

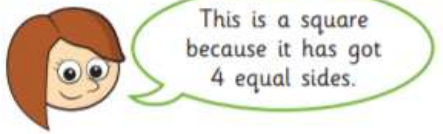
What is the same about all of the shapes?

What is different?

4 Draw the shapes on the grid.

a) square **b)** trapezium **c)** parallelogram

5



Do you agree with Rosie? _____

Explain your answer.

6 Complete this Frayer Model to describe a quadrilateral.

My definition	Key characteristics
Quadrilateral	
Example	Non-example

Where can I complete further work?

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Classroom Secrets – 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.

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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.

Top Marks – Free educational resources and games for English and Maths.

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