Maths
(1) Work out the sum of the angles in each shape.
a)

b)


What do you notice?
2) The diagrams show the four vertices of a quadrilateral arranged around a point.


What do the diagrams illustrate about the sum of the angles in a quadrilateral?

Complete the sentence.
Angles in a quadrilateral $\qquad$ $-$
(3) Work out the size of the unknown angle in each trapezium.
a)

b)

c) What is the same and what is different about the trapeziums?
(4) Work out the sizes of the unknown angles.

b)

c) What do you notice about opposite angles in a parallelogram?

5 Two isosceles triangles are joined to form a kite.
a) Work out the sizes of the unknown angles.
b) Work out $w+x$.

c) Work out $y+z$.

What do you notice? Talk about it with a partner. Maths
(3) Work out the size of the unknown angle in each trapezium.
a)

b)

c) What is the same and what is different about the trapeziums?
(4) Work out the sizes of the unknown angles.
a)

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a) Work out the sizes of the unknown angles.
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What do you notice? Talk about it with a partner.

6 Work out the sizes of the unknown angles.
a)

c)

b)

d)


Compare your reasoning with a partner.
(7)

Teddy is drawing a quadrilateral.


Is Teddy's quadrilateral possible?
Explain your answer.

