Angles in a quadrilateral $\qquad$

## Angles in a quadrilateral

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.
I

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

b)


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

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.

6 Work out the sizes of the angles marked with letters.
a)

b)

$\square$
$\square$
c)

d)



Compare your reasoning with a partner's.
(7)

Tiny is looking at a shape.


Is Tiny's shape a quadrilateral? $\qquad$
Explain your answer.
$\qquad$

