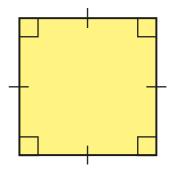
Angles in a quadrilateral



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

a)



b)

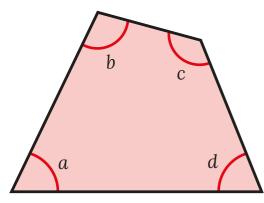


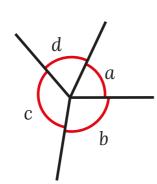


What do you notice?



The diagrams show the four vertices of a quadrilateral arranged around a point.





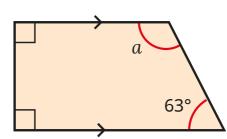
What do the diagrams illustrate about the sum of the angles in a quadrilateral?

Complete the sentence.

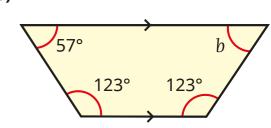
Angles in a quadrilateral _____

3 Work out the size of the unknown angle in each trapezium.

a)

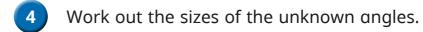


b)

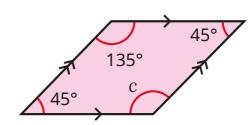


<i>a</i> =		c
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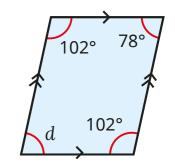
What is the same and what is different about the trapeziums?



a)





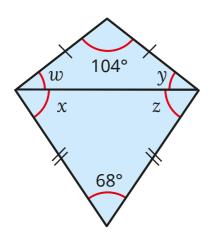


$$d = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$$

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



a) Work out the sizes of the unknown angles.



$w = \begin{vmatrix} \circ & y = \end{vmatrix} $	w =		° y =		0	<i>x</i> =	
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b) Work out w + x.



c) Work out y + z.

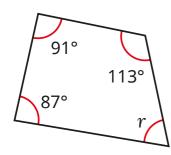


What do you notice? Talk about it with a partner.

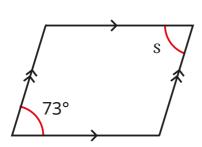


6 Work out the sizes of the angles marked with letters.

a)

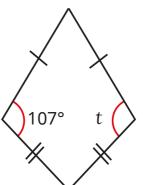


b)

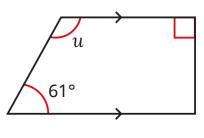


$$r =$$

c)



d)



$$u =$$

Compare your reasoning with a partner's.



This quadrilateral has exactly three right angles.



Is Tiny's shape a quadrilateral? _____ Explain your answer.