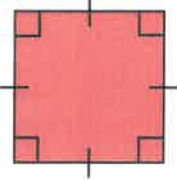



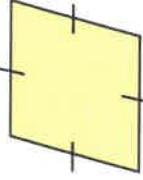
Quadrilaterals

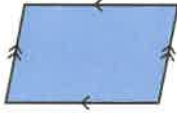
1 Use the word bank to label each quadrilateral.

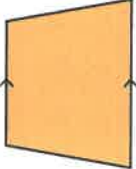
- rhombus
- parallelogram
- trapezium
- rectangle
- square

a)  _____

b)  _____

c)  _____

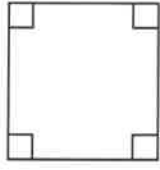
d)  _____


e)  _____

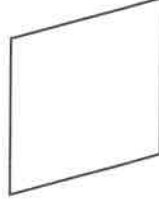
How did you know which shape was which?




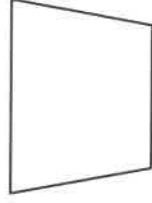
2 Here are some quadrilaterals.

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

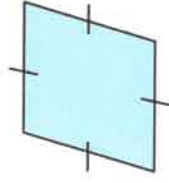
c) parallelogram



5



This is a square because it has got 4 equal sides.



Do you agree with Rosie? _____

Explain your answer.

6

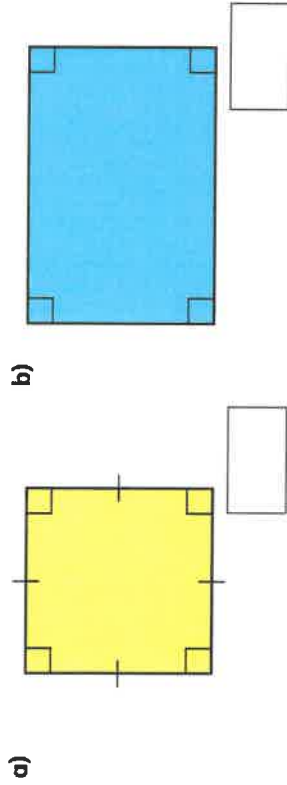
Complete this Frayer Model to describe a quadrilateral.

My definition	Key characteristics
Example	Non-example



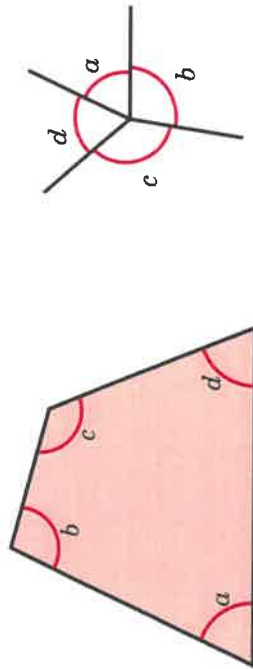
Angles in special quadrilaterals

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



What do you notice?

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

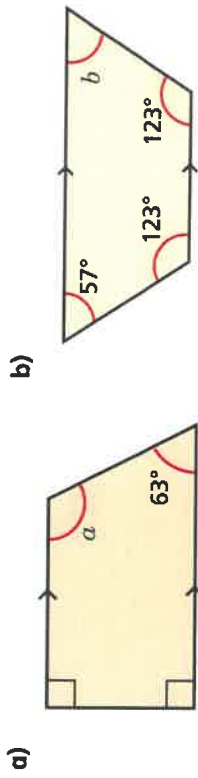


What do the diagrams illustrate about the sum of the angles in a quadrilateral?

Complete the sentence.

Angles in a quadrilateral _____

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

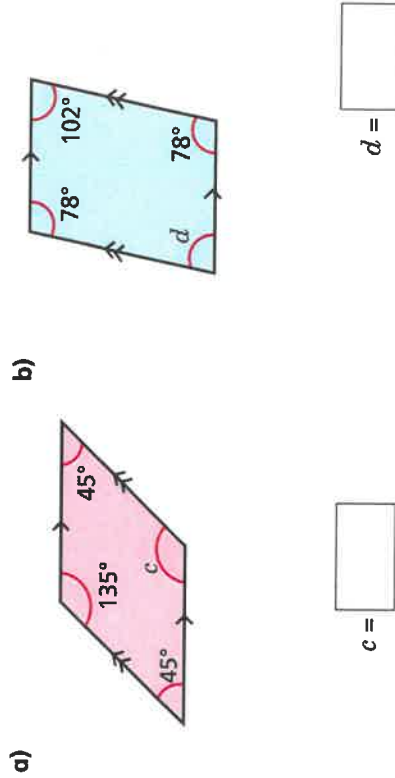


$a =$

$b =$

c) What is the same and what is different about the trapeziums?

4 Work out the sizes of the unknown angles.



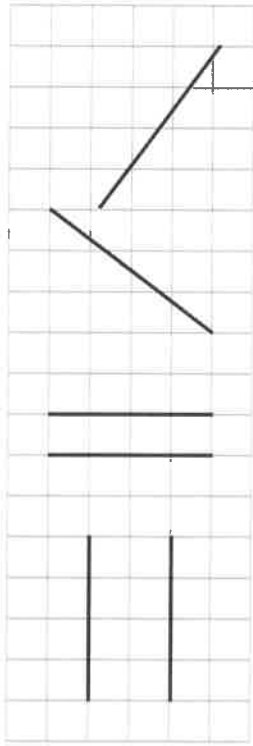
$c =$

$d =$

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

Parallel and perpendicular

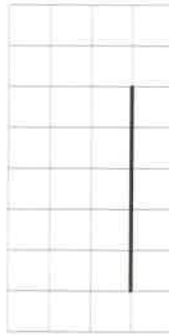
1 Tick the pairs of lines that are not parallel.



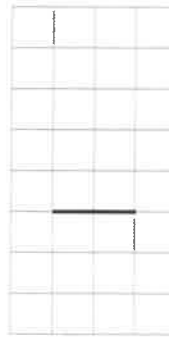
2 Here are two lines.

Draw a line that is parallel to each.

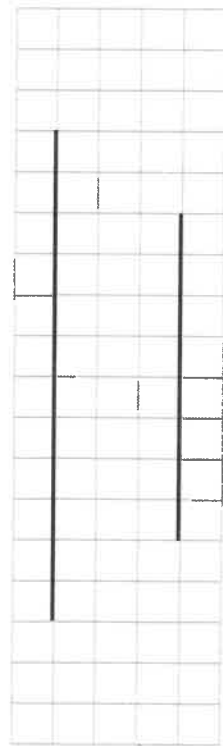
a)



b)

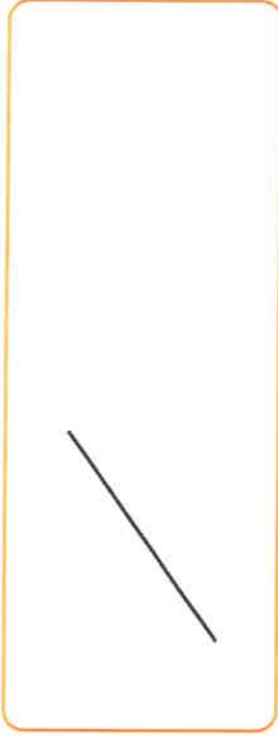


3 Amir says that the lines are not parallel because they are different lengths.

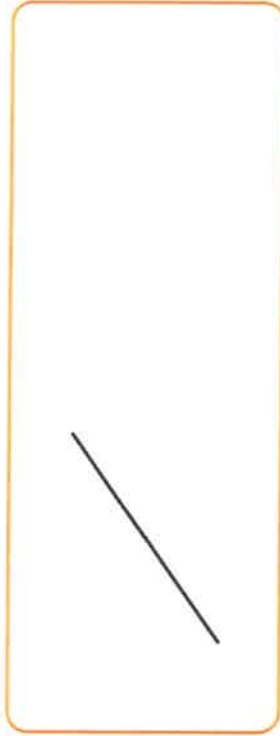


Is Amir correct? _____
Why?

4 a) Here is a line. Draw a line that is **not** parallel to it.



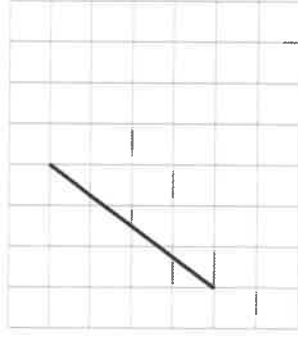
b) Here is a line. Draw a line that is parallel to it.



5 Here are two lines.

Draw a line that is parallel to each.

a)



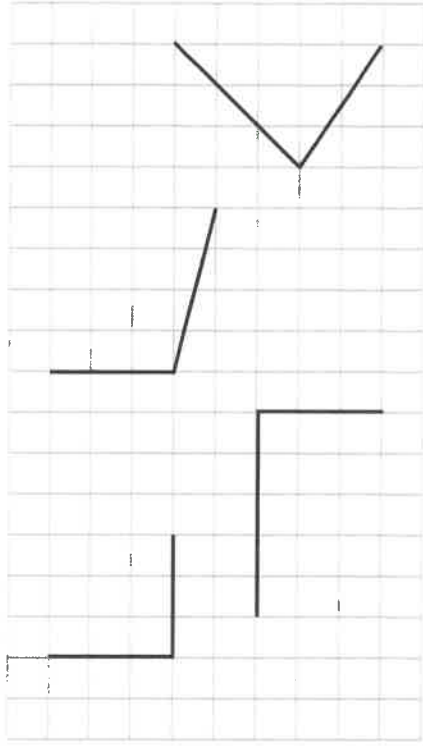
b)



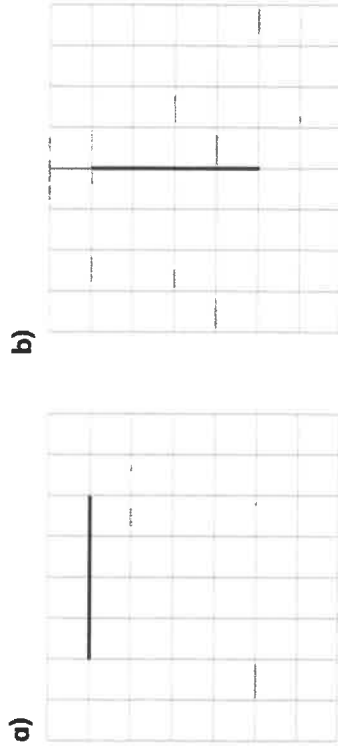
Talk to a partner about how you did it.



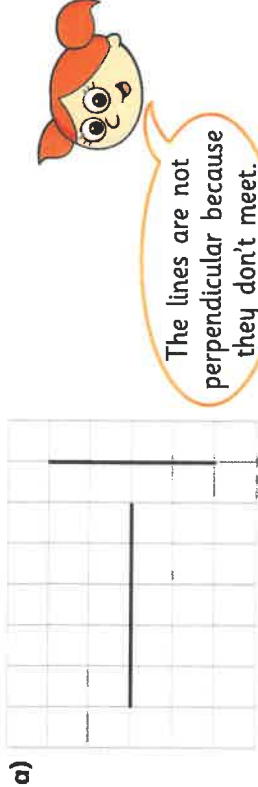
6 Tick the perpendicular lines.



7 Here are two lines. Draw a line that is perpendicular to each.

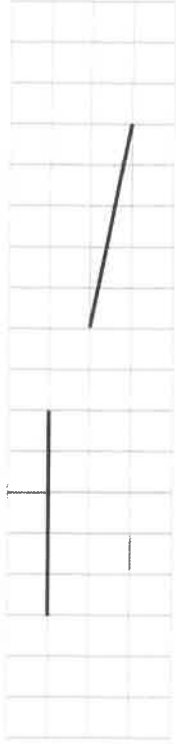


8 Alex has drawn some lines on grids.



Do you agree with Alex? _____

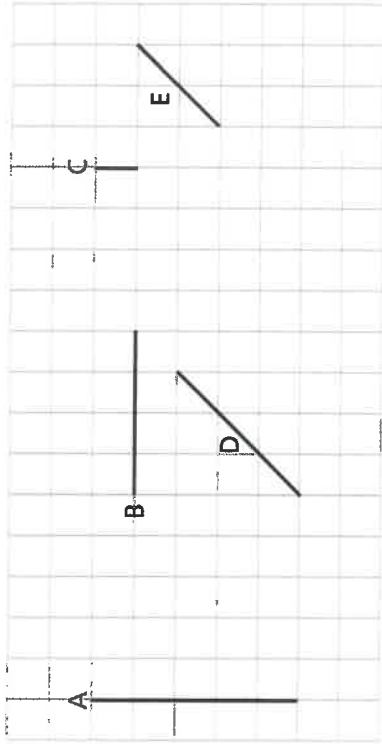
b)



Do you agree with Alex? _____

Talk about your answers with a partner.

9 Five lines are drawn on the grid.



a) Which two pairs of lines are parallel?

b) Which two pairs of lines are perpendicular?

