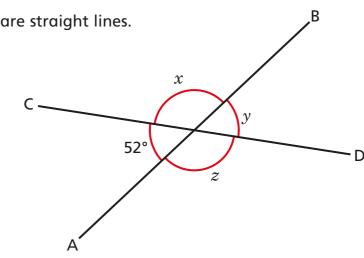
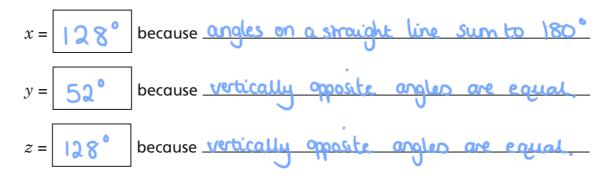
Solve angle problems using properties of triangles and quadrilaterals



AB and CD are straight lines.

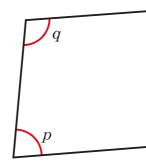


Work out the sizes of angles x, y and z. Give reasons for your answers.



Compare your reasons with a partner. Did you work out each angle in the same way?

Here is a quadrilateral.

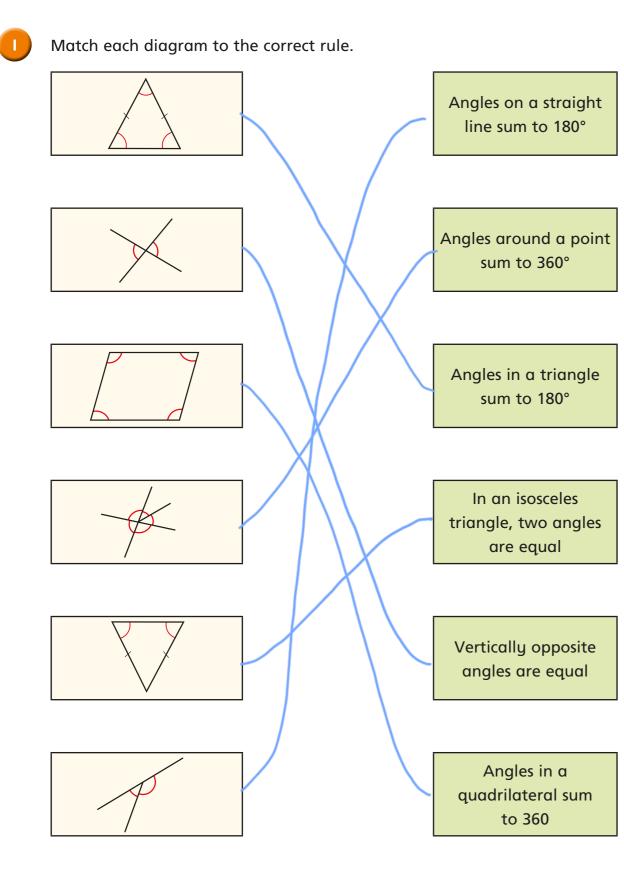


a) Work out the size of angle s. Give a reason for your answer.



b) What is the sum of angles q, r and How do you know?

Angles is a quadrilater

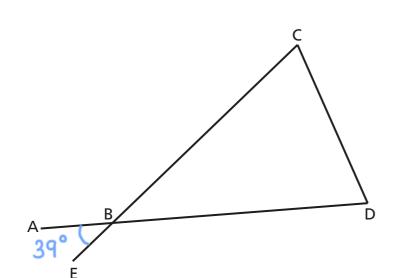




sn a	straight.	line	sum to	180°
d p?			25	Î
al s	un to	360	D	

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a) Angle ABE is 39°.

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Label it on the diagram.

b) What is the size of angle ABC? How do you know?

141°

39°

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c) What is the size of angle CBD? How do you know?

Vertically opposite angles are equal

d) What is the sum of angles BCD and CDB? How do you know?

Angles in a triangle sum to 180

e) Angle BCD is 70°. Is triangle ACD isosceles? <u>No</u> Discuss with a partner.

