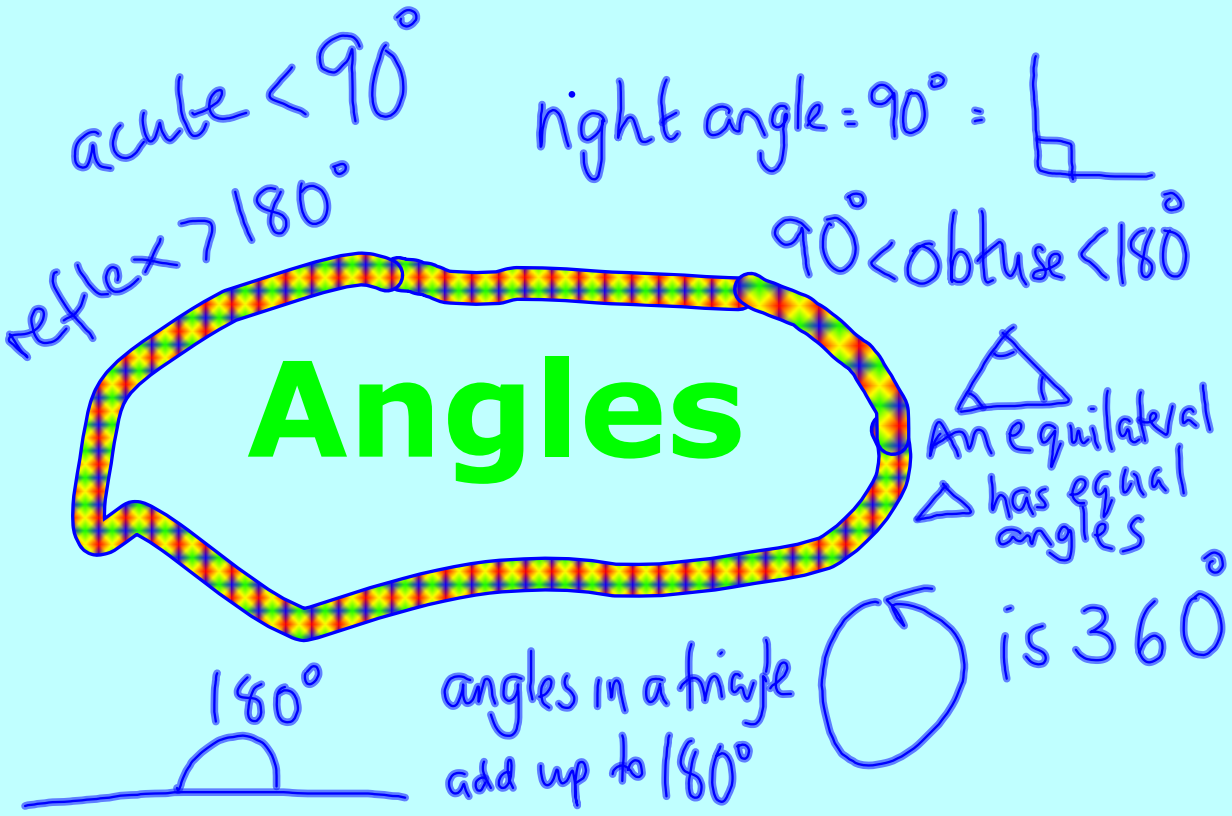


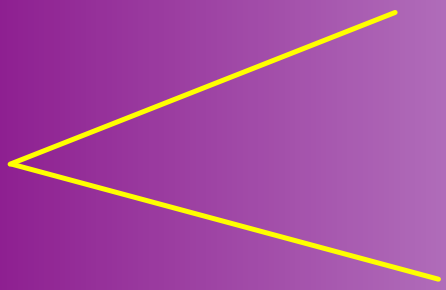
Types of angle page 141

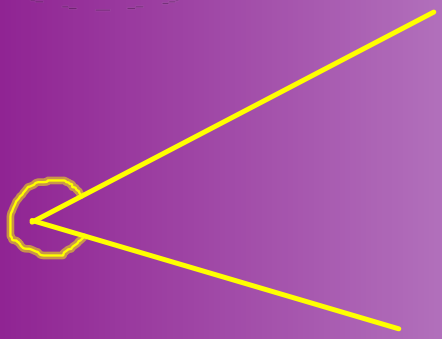
Angles 4 and angles 5 gsp

Estimating angles game

Measuring Angles (no angels please)

Types of Angle:



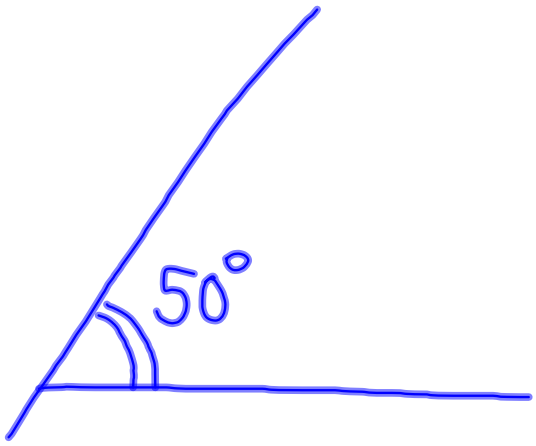


Measuring angles page 142

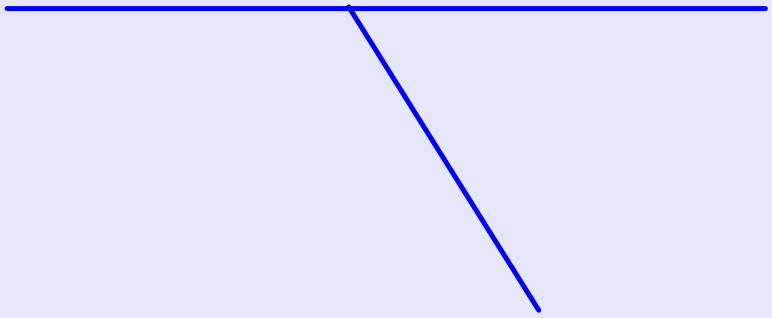
Angles

size	my actual	fred's actual	my points	fred's points
40°				
80°				
70°				
55°				

a)



Angles and straight lines

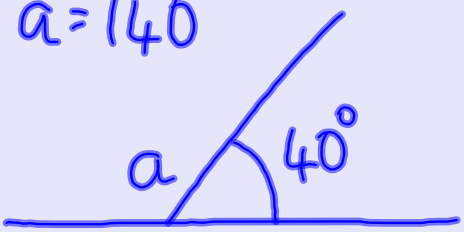


72
108

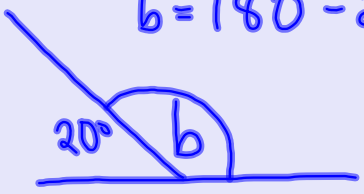
Angles on a straight line total... 180°

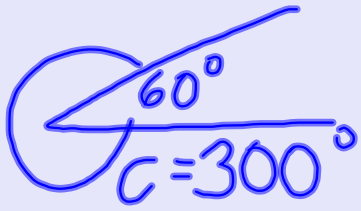
Angles round a point total 360°

a = 140°

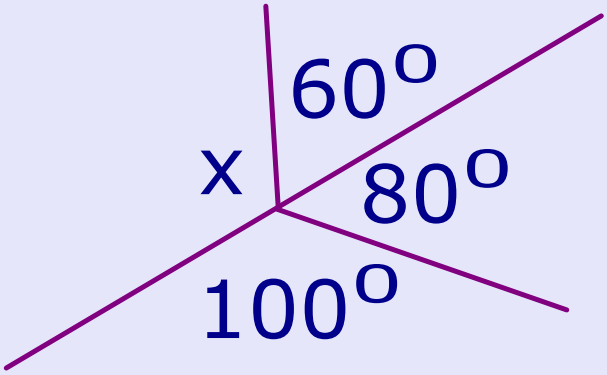


b = 180° - 20° = 160°





Angles round a point

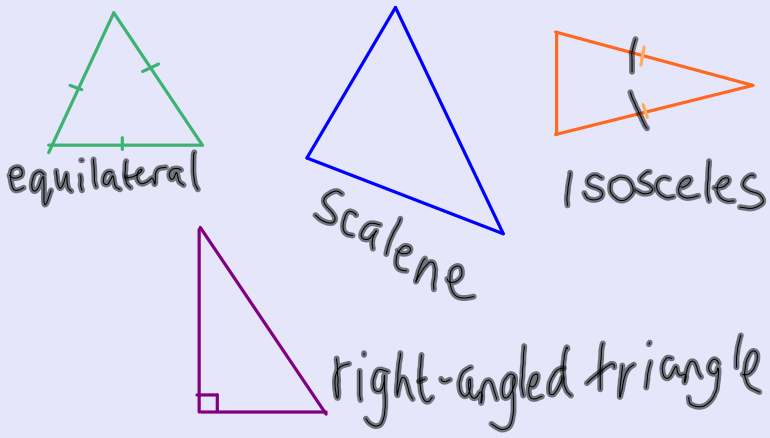


Angles round a point total 360^{o}

page 144 and p 146 Ex 7.5

Triangles

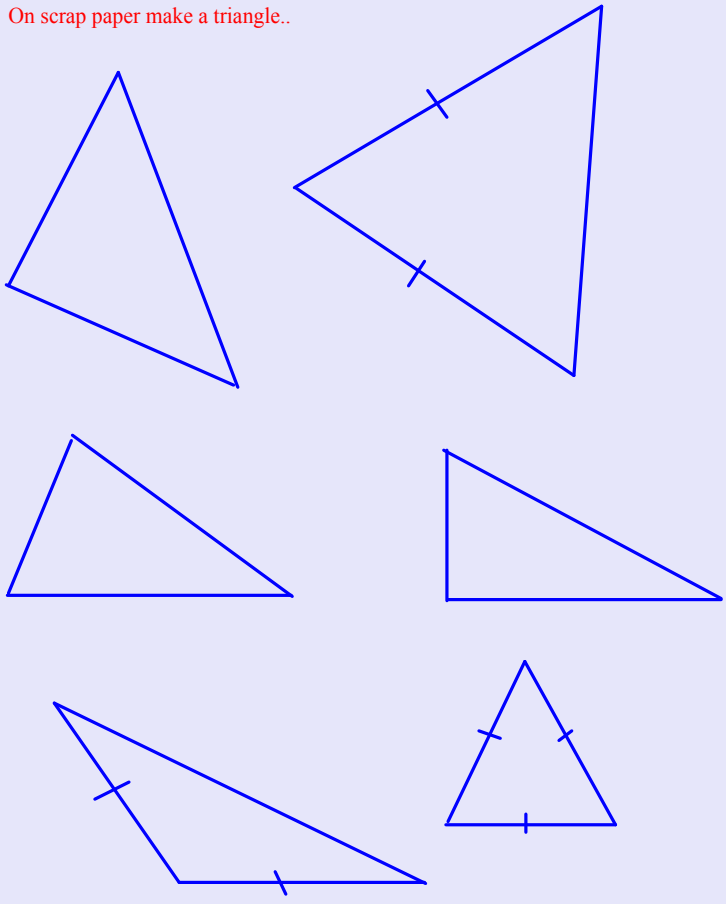
Can you name 4 different types of triangle?



Angles in a triangle

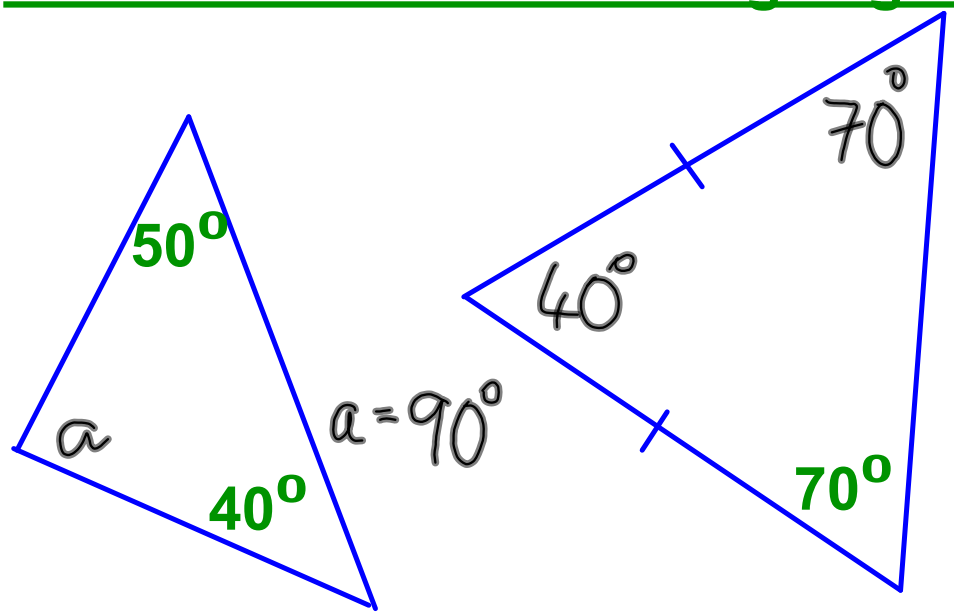
Demonstrate on geometers sketchpad

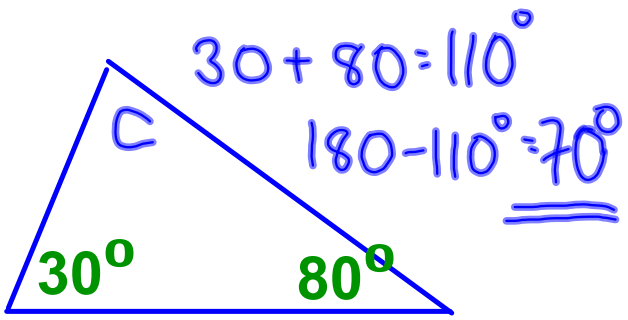
On scrap paper make a triangle..

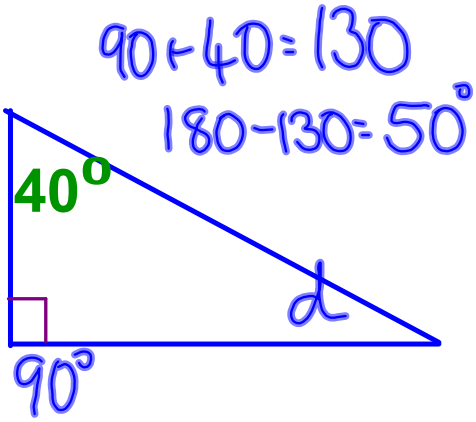


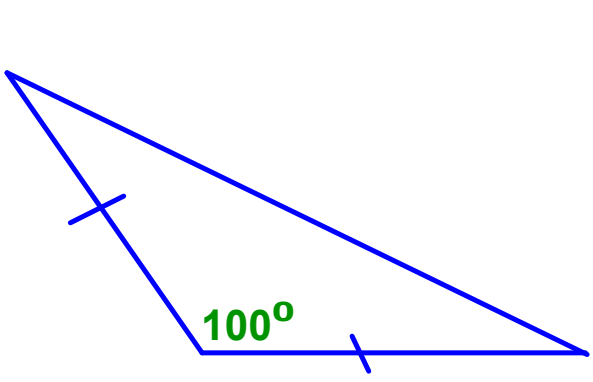
On a whole page draw a triangle.

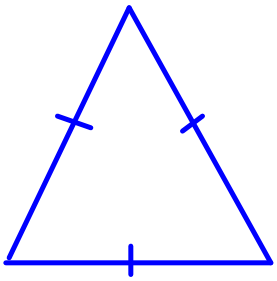
Find the size of the missing angles







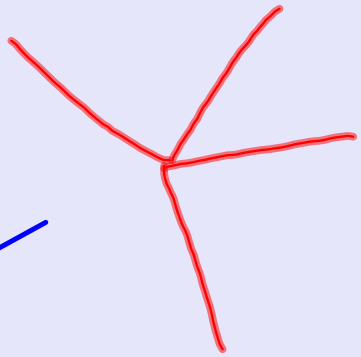


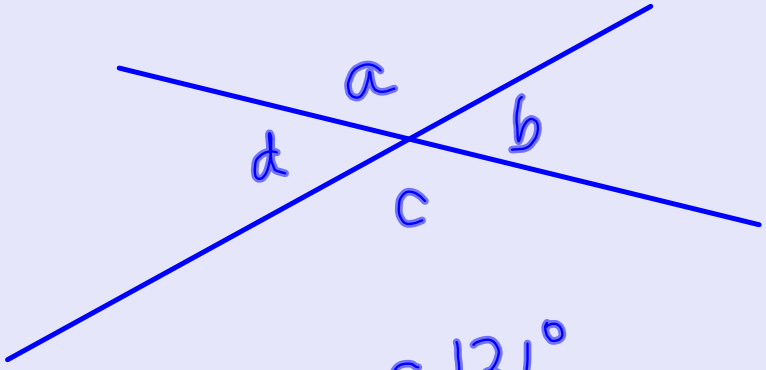


page 140 - 141

Vertically opposite angles

In your book draw two intersecting lines.
Measure all 4 angles.





$a = 131^\circ$

$b = 50^\circ$ $d = 50^\circ$

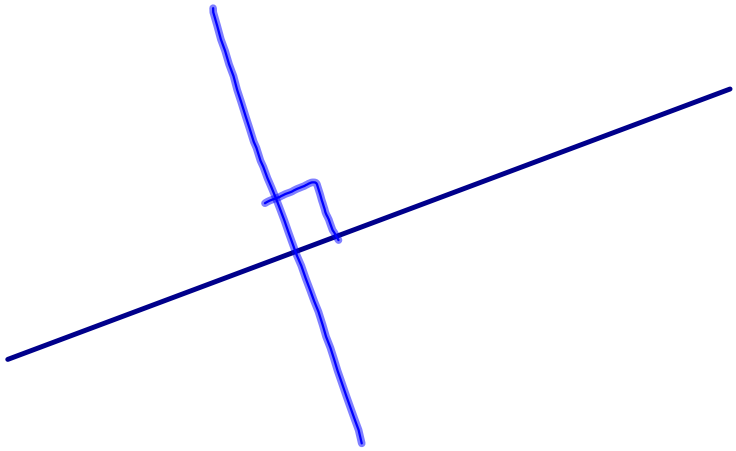
$c = 131$

Opposite angles are equal

p231
Demonstrate on geometers sketchpad

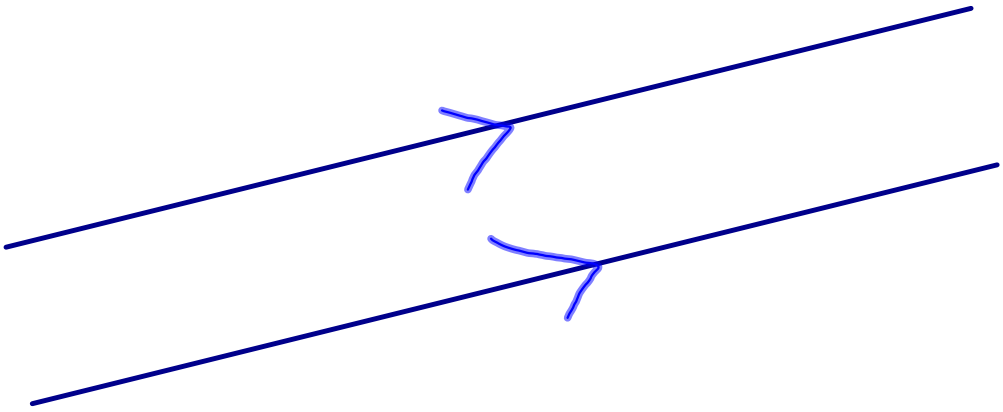
Page 149 ex 7.8

Perpendicular lines



Lines that are perpendicular are at.....to each other

Parallel Lines



Lines that are parallel never meet. They are like train tracks.

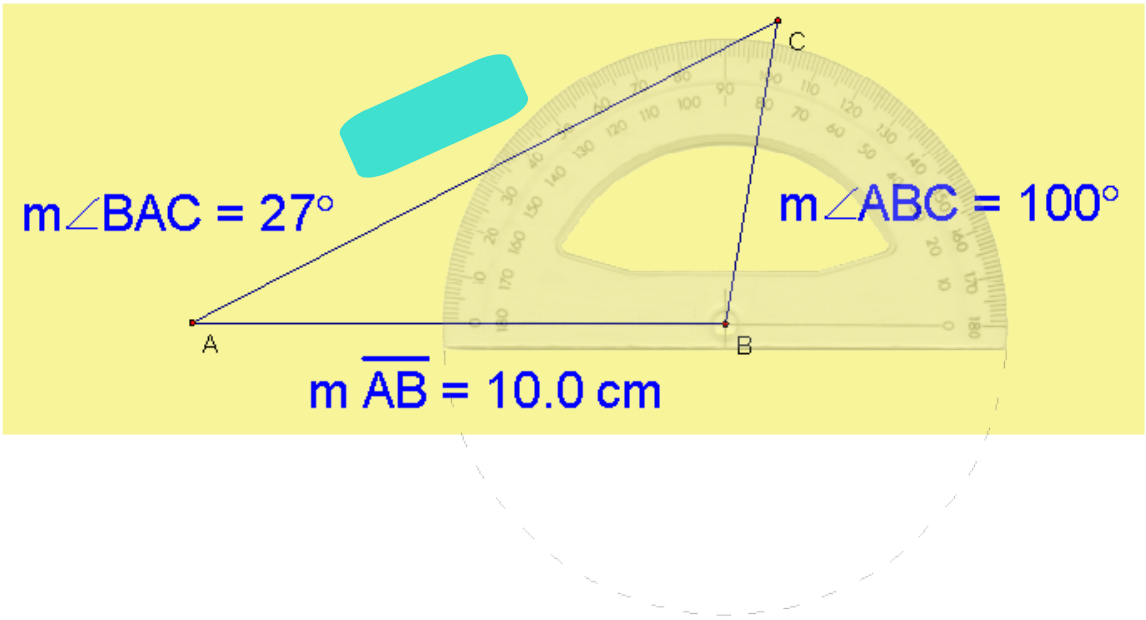
Accurate drawings

Page 145: qu 1-5

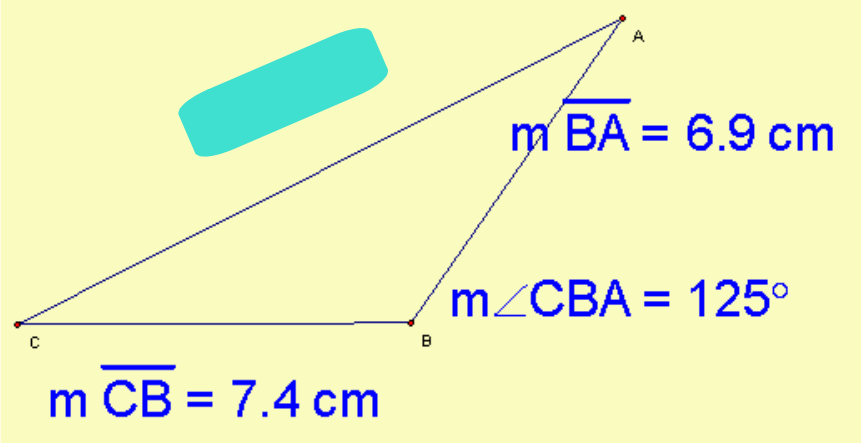
Constructing triangles

You will need: a protractor, compasses, a ruler and pencil.

1. One side and 2 angles

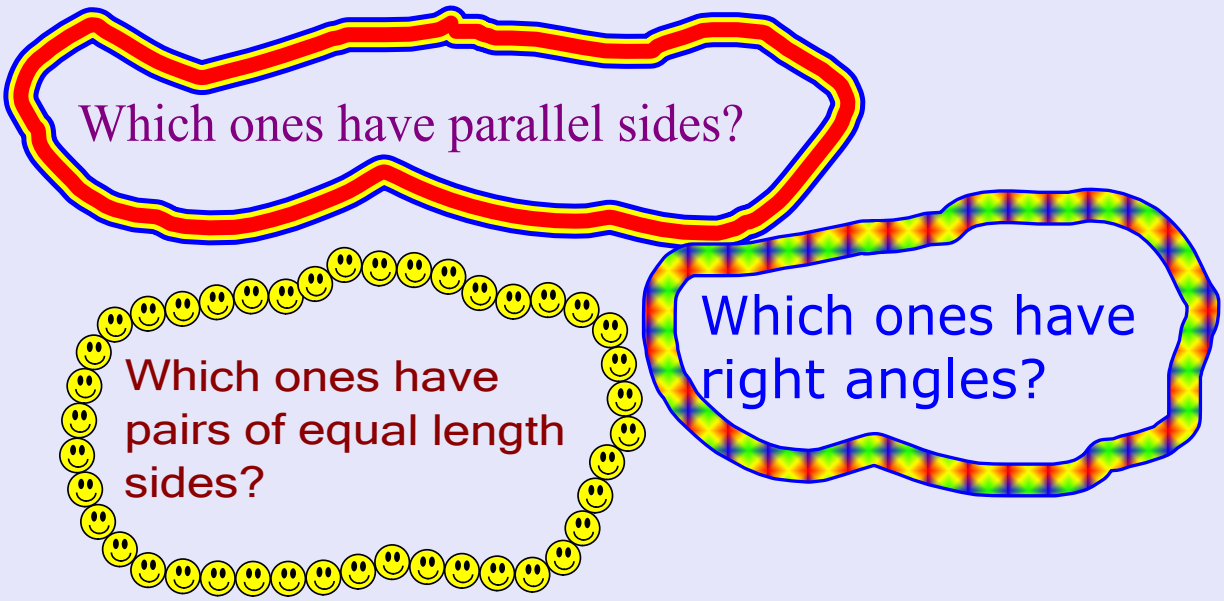


2. 2 sides and an angle

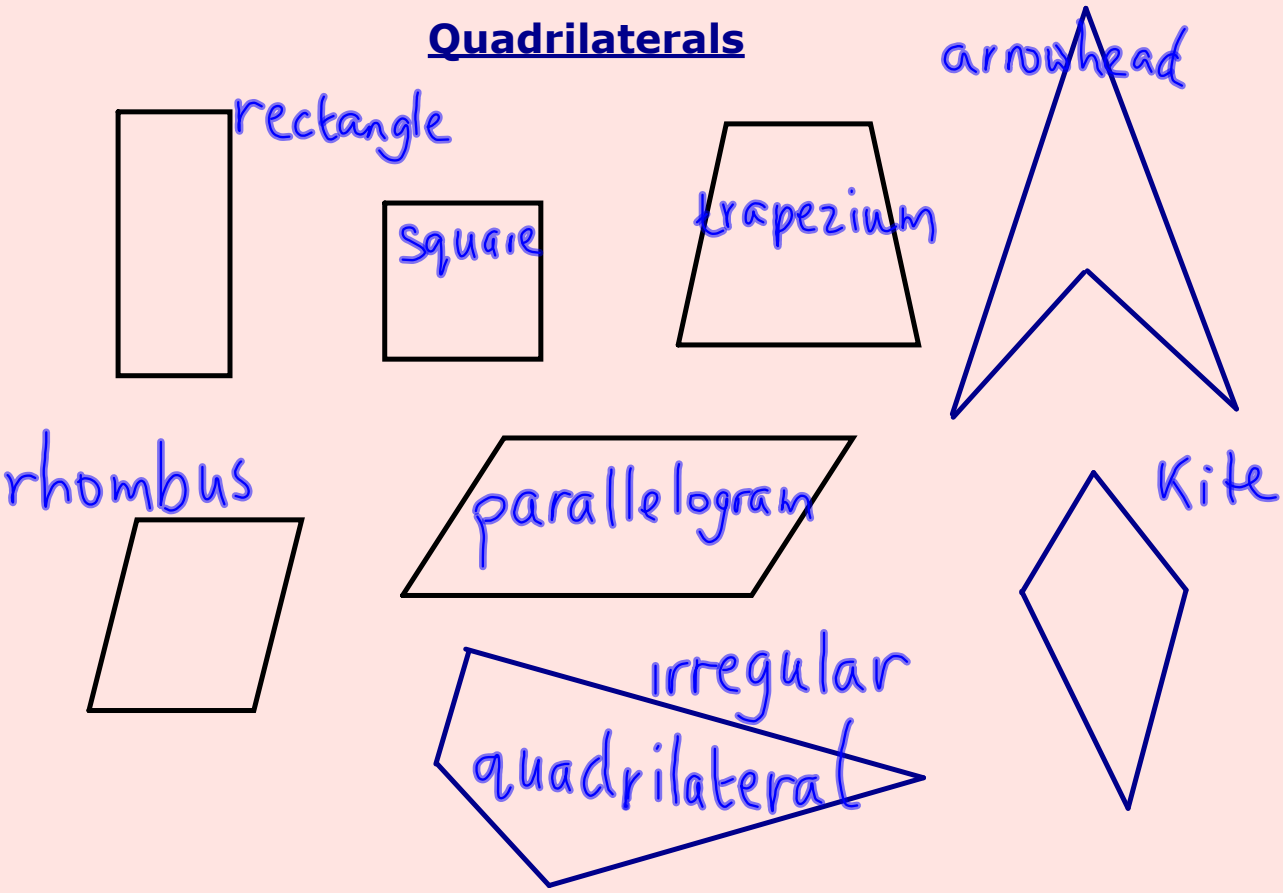


Quadrilaterals

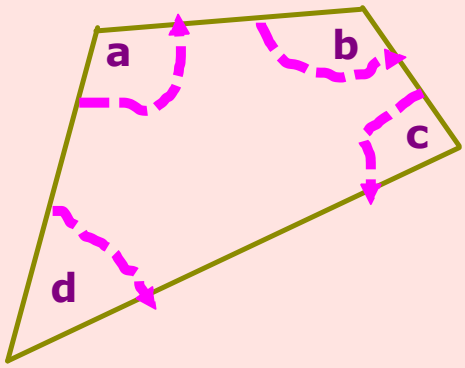
Working in pairs how many different ones can you name and draw? There are 7!



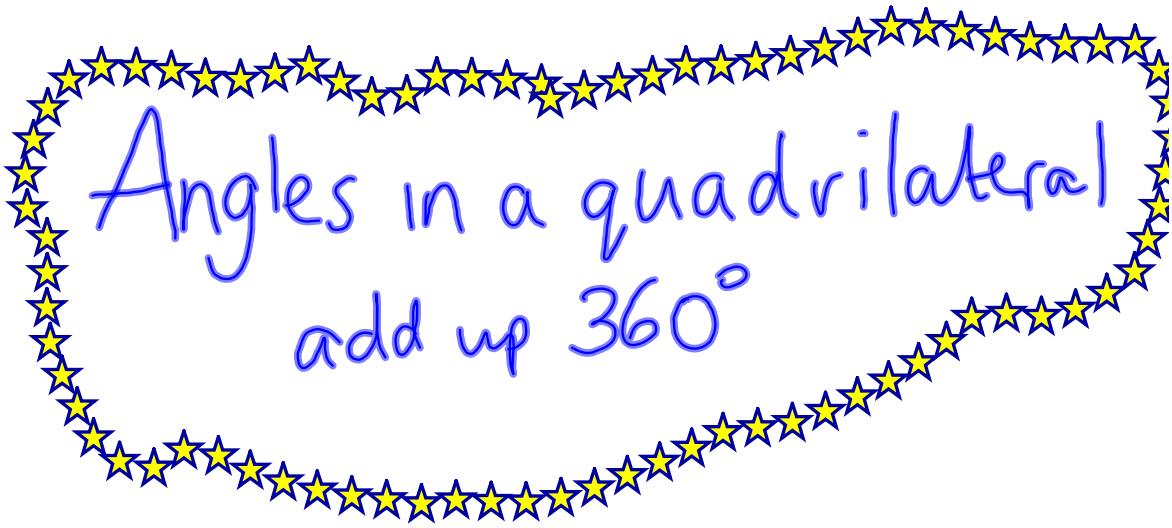
Quadrilaterals



On paper draw a quadrilateral. Mark the 4 angles a,b,c,d.
Tear them from the shape and put them together.



Tear along the dotted lines!


Angles in a quadrilateral
add up 360°

Attachments

YR 7 SSM2.doc

angles.gsp

angles in polygons.ppt

Angle properties.gsp