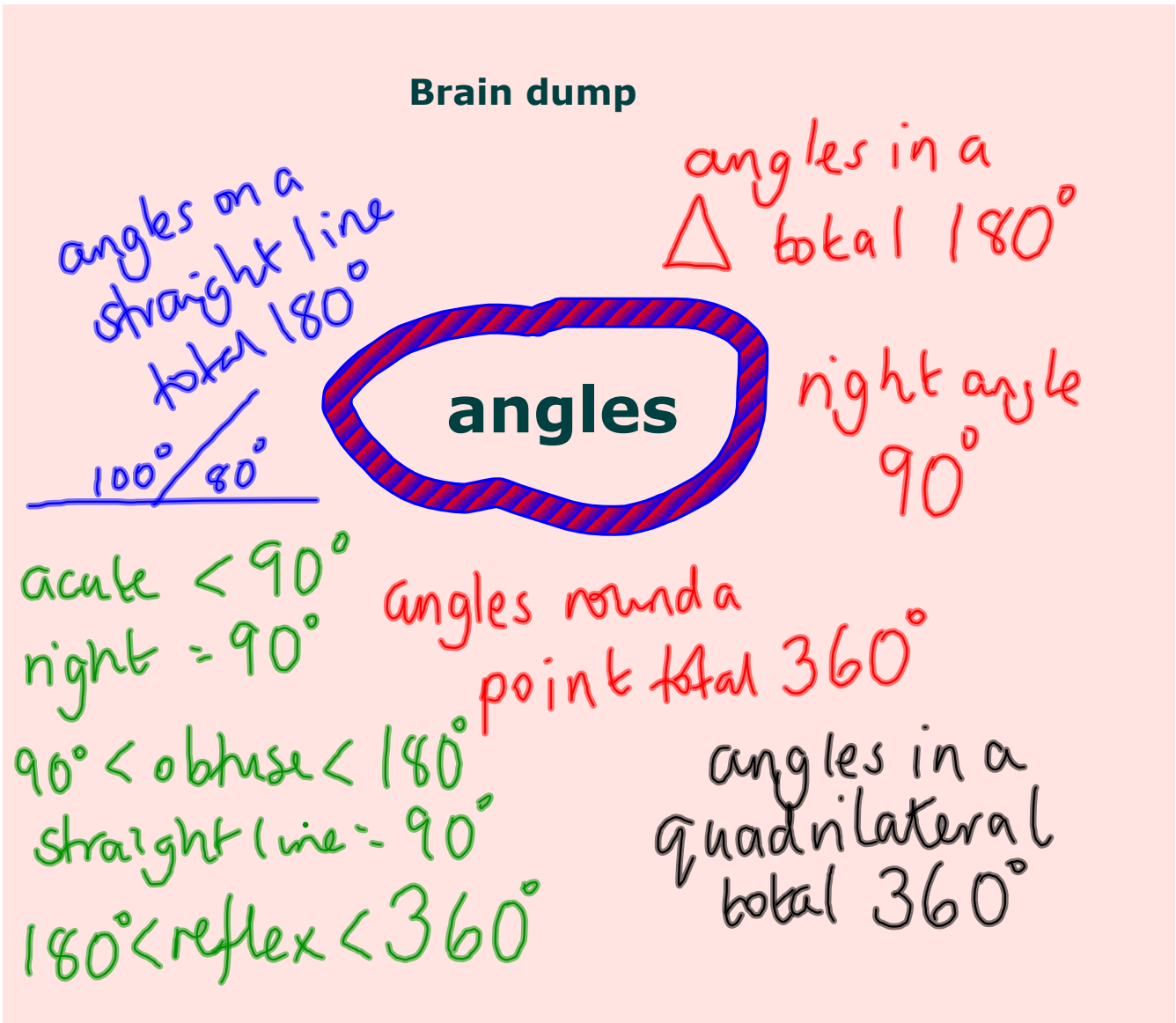
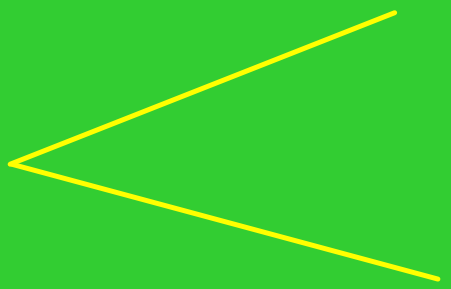
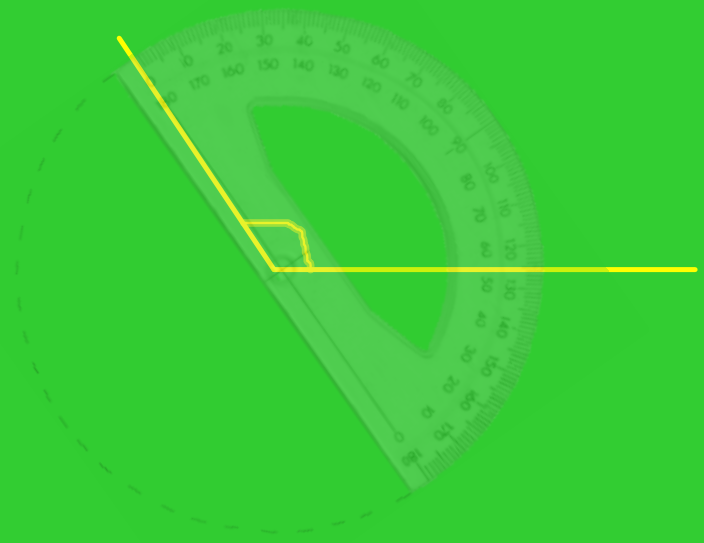
Brain dump

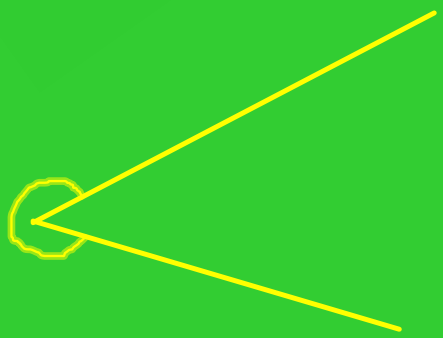

angles
angles on a straight line total 180°
100°
80°
angles in a △ total 180°
right angle 90°
acute < 90°
right = 90°
90° < obtuse < 180°
straight line = 180°
180° < reflex < 360°
angles round a point total 360°
angles in a quadrilateral total 360°

Measuring Angles (no angels please)

Types of Angle:



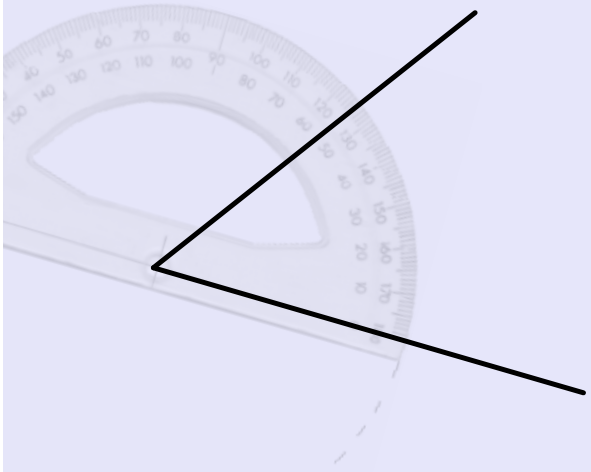




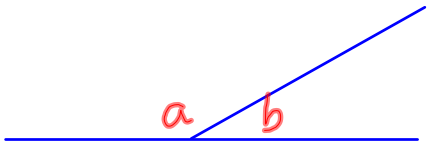
Angles

my points = difference between "size" and actual

size	my actual	fred's actual	my points
50^0	46	50	



angles on gsp

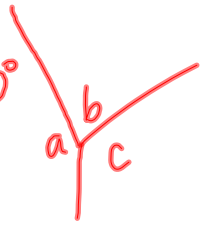


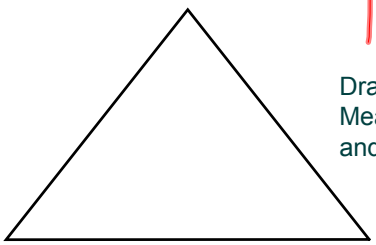
$a + b = 180°$

Angles on a straight line total...

Angles round a point total...

$a + b + c = 360°$





Draw a triangle.
Measure the 3 angles and add them up.

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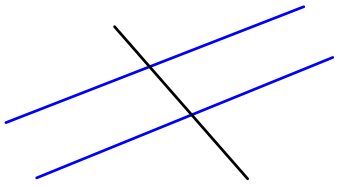
E1 a) $90 - 25 = 65$

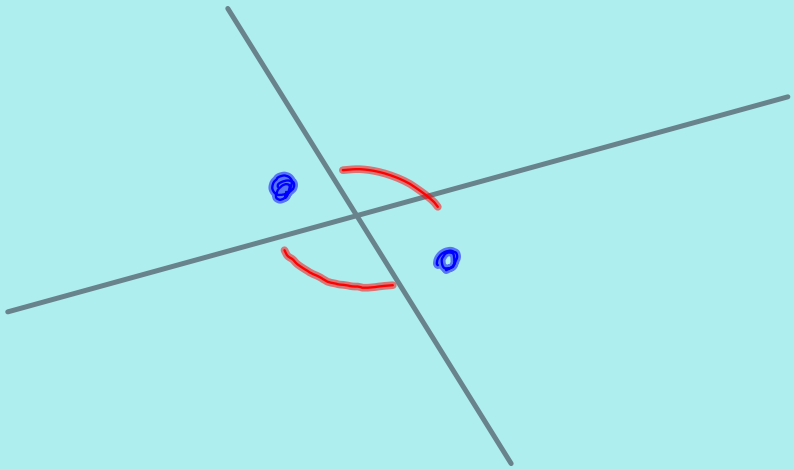
b) $180 - 145 = 35$

c) $180 - 51 = 129$

d) $180 - 85 = 95$



Opposite angles



Draw a pair of intersecting lines like this:

Measure all 4 angles.

Angle Fact 1:

Angles on a straight line add up to 180^0.

Angle fact 2:

Angles round a point total 360^0.

Angle fact 3:

Opposite angles are equal.

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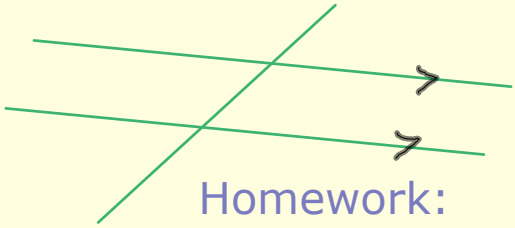
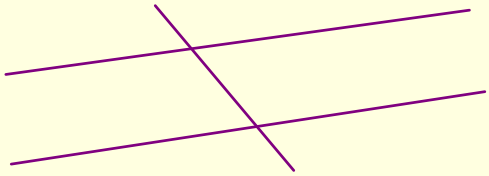
Angles and Parallel lines

In your book draw a pair of parallel lines and another line intersecting it. Like this:



or this:



Homework:
For Monday
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Measure all 8 angles

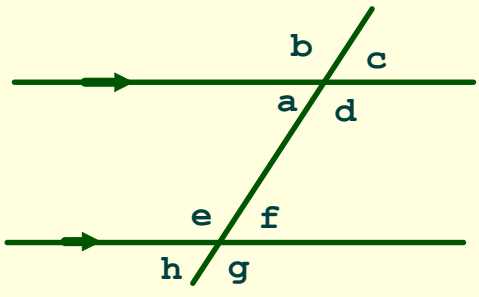
Angle fact 3:

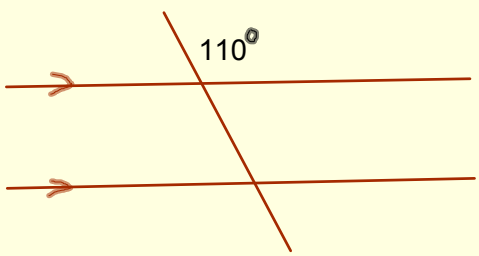
Alternate angles are equal.

To help find alternate angles look for the Z shape. Sometimes it is a reflected Z:

Angle fact 4:

Corresponding angles are equal.
Look for the F





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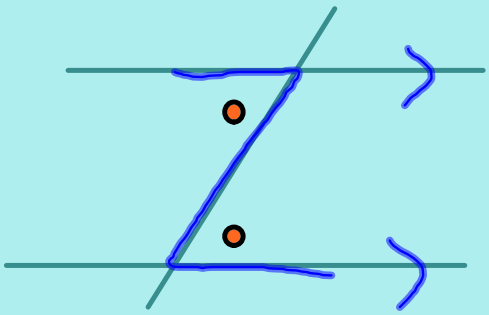
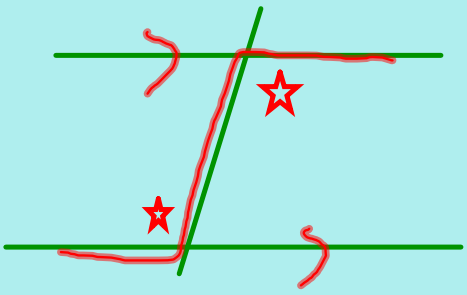
Angles in Parallel lines

Angle fact 3:

Alternate angles are equal.

To help find alternate angles look for the Z shape. Sometimes it is a reflected Z: S





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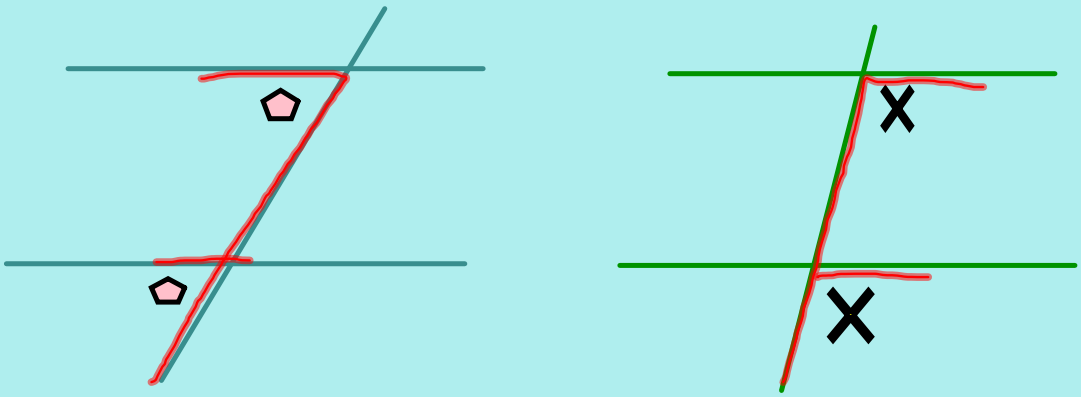
o alternate

☆ alternate

Angle fact 4:

Corresponding angles are equal.
Look for the F or Ǝ



corresponding

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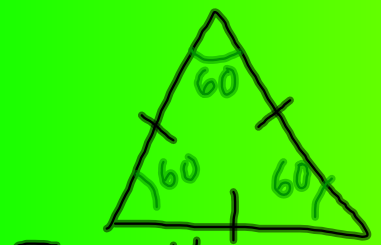
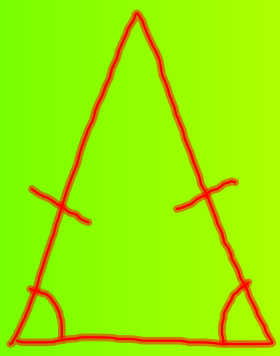
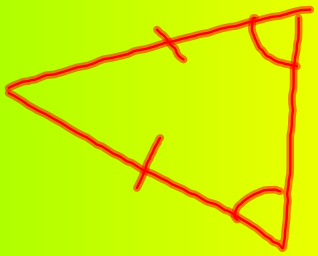
Triangles

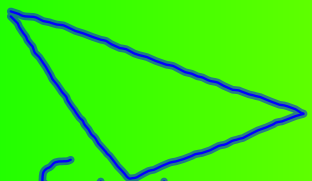


Equilateral





Isosceles



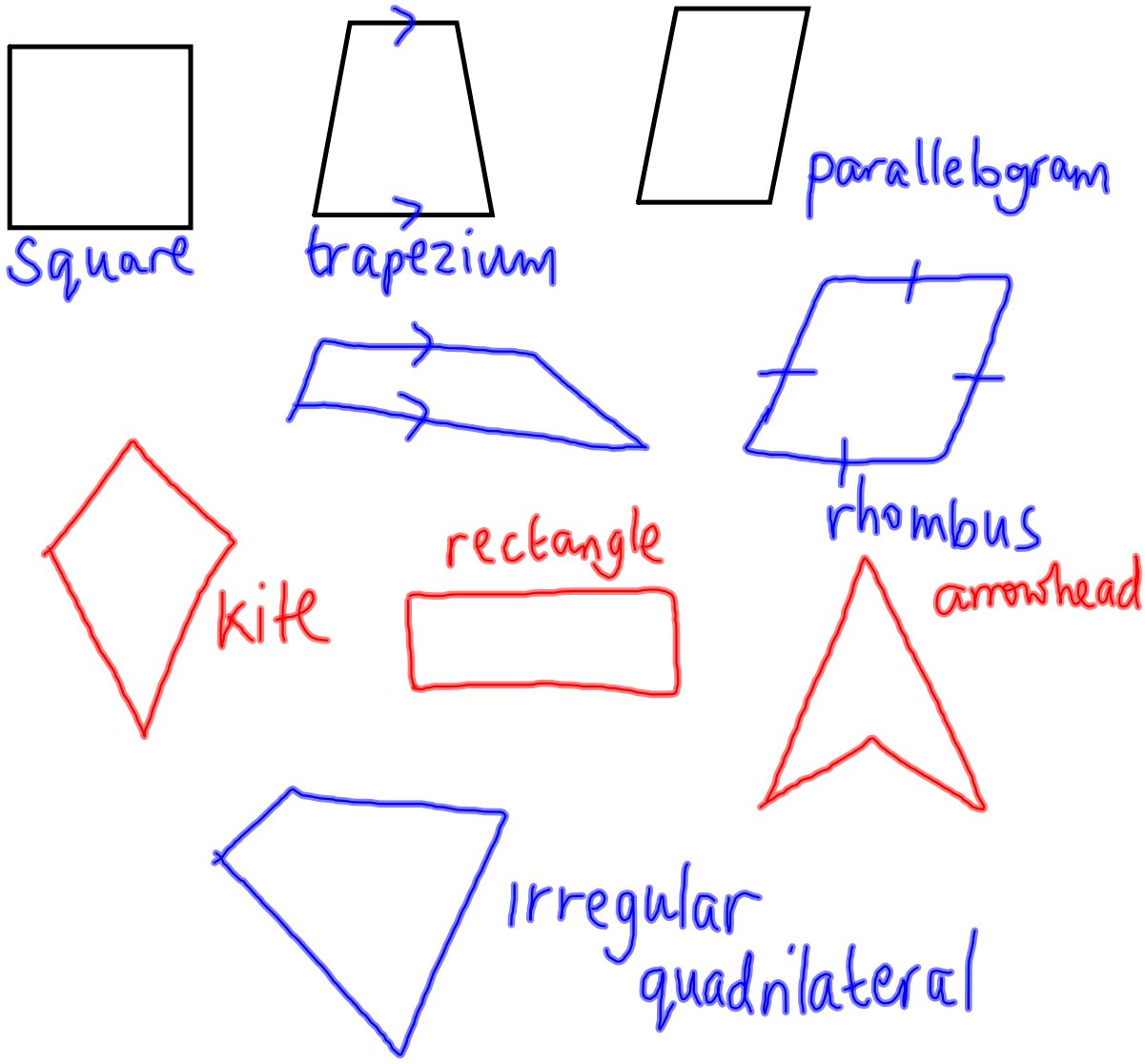
Scalene

Right-angled triangle

Quadrilaterals

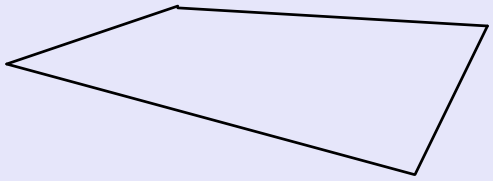
In pairs, how many different quadrilaterals can you draw and name?

Draw them as accurately as you can.

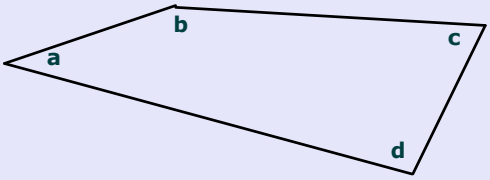


1. Take a plain piece of paper.
Fold it in half.

2. Draw an irregular quadrilateral.



3. Mark in the 4 angles: a,b,c,d



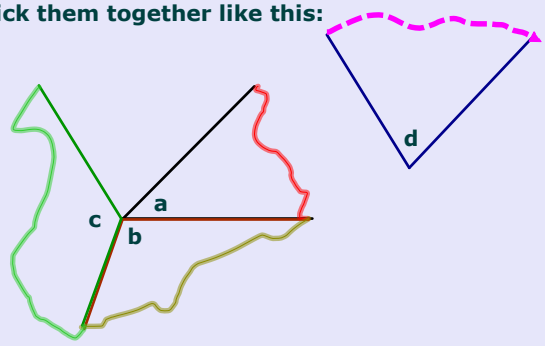
4. Cut out the quadrilaterals.

5. Mark a,b,c,d, on the second quadrilateral.

6. Stick one of the quadrilaterals in your book.

7. Carefully tear off the 4 angles of your other quadrilateral.

8. Stick them together like this:



Copy into your book:

Angles in a quadrilateral total _____ , just like angles round a point.

Intermediate book page 8.

Angles memory game.

Attachments

Mathematical Constructions.ppt

angles.gsp