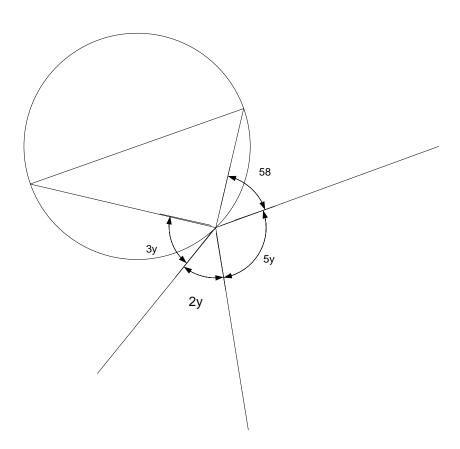
Angle Problems

Things to remember:

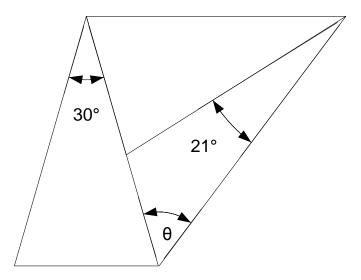
- a There are 360° in a circle.
- b The sum of angles that meet at a point is 360°.
- c Angles that form a straight line total 180°.
- d The sum of angles in a triangle is 180°.
- e An angle subtended by a diameter is 90°.
- f Opposite angles subtended by a chord add up to 180°.
- g All angles subtended by the same chord on the same side of the chord are the same size.

DO NOT SCALE ANY OF THESE DIAGRAMS.

1

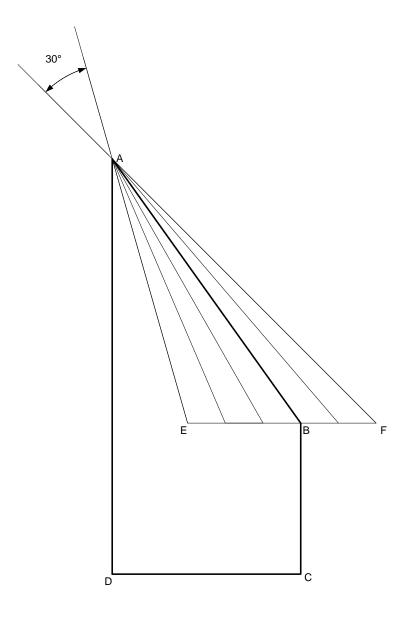


Find the value of y.



The quadrilateral above is composed of two identical isosceles triangles and a scalene triangle. You are shown an angle of 30° and an angle of 21°. Calculate the size of angle θ .

Explain the calculations that you do.



ABCD is a quadrilateral. The line EF is divided equally. The angle shown is an extension of the lines AF and AE. Angles BCD and CDA are right angles. Calculate the angles DAB and ABC.