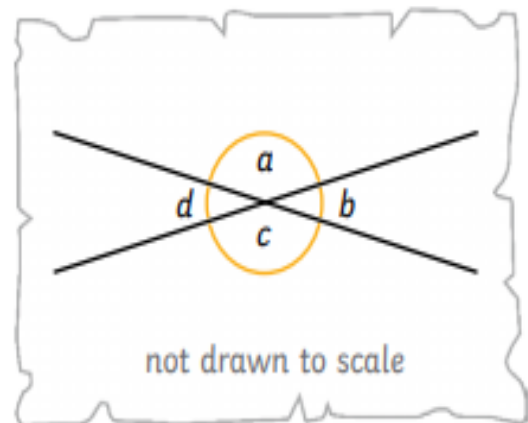Vertically Opposite Angles

After watching the Powerpoint have a go at these questions.

**1)** True or false? Tick the box next to each statement if it is true or cross it if it is false.

☐ Angles $a$ and $b$ are equal.

☐ $d + a = 180°$

☐ Angles $b$ and $d$ are equal.

☐ $c + a = 180°$

☐ Angles $a$ and $c$ are equal.

☐ $a + b + c + d = 360°$



not drawn to scale

**2)** Use what you know about vertically opposite angles, angles on a straight line and angles around a point to help you calculate each angle represented by a letter.

a)          not drawn to scale
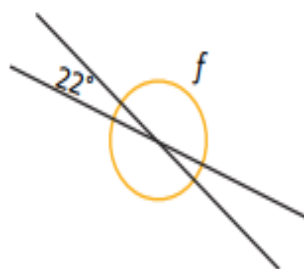


125°

b

c

b = _____

c = _____

b)          not drawn to scale
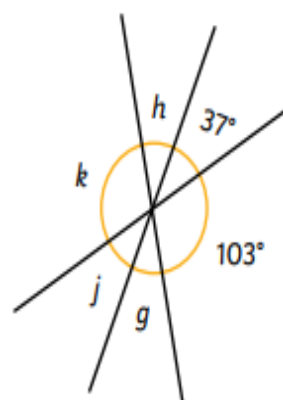


e

d

38°

d = _____

e = _____

**c)**

not drawn to scale

22°   f

f = _____

**d)**

not drawn to scale

h   37°

k

103°

j

g

g = _____     j = _____

h = _____     k = _____

**1)** Angle $y$ is 42°. Use this fact to work out all the remaining angles.

p = _____

x = _____

z = _____

x

p

y

z

not drawn to scale