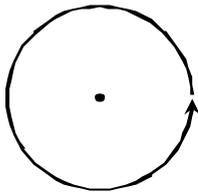


Angles

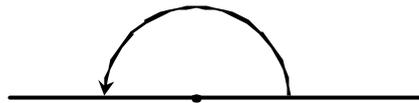
Data Sheet

Degrees

Angles are measured in degrees. There are:



360°
at a point



180°
on a straight line

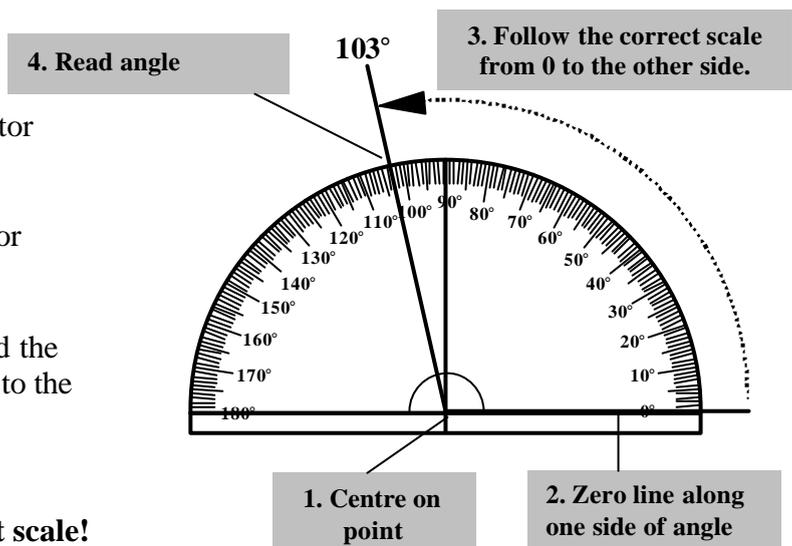


90°
in a right angle

To measure an angle:

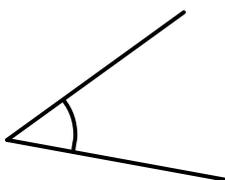
1. Put the centre of your protractor on the point of the angle.
2. Lie a zero line of the protractor over one side of the angle.
3. Follow the correct scale round the edge of the protractor from 0 to the other side of the angle.

4. Read the size of the angle.
Take care to use the correct scale!

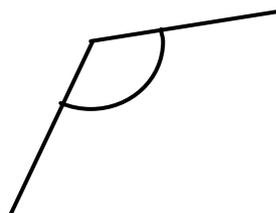


N.B. There are usually two scales - only one is shown on this diagram.

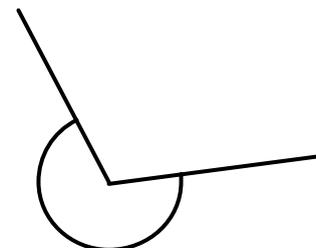
Types of angles



An **acute** angle is less than **90°**



An **obtuse** angle is more than **90°** but less than **180°**



A **reflex** angle is more than **180°**

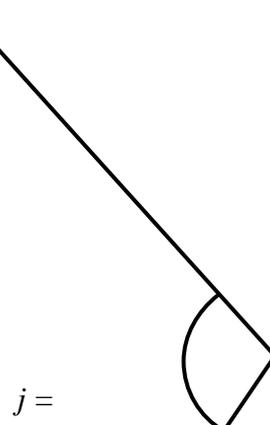
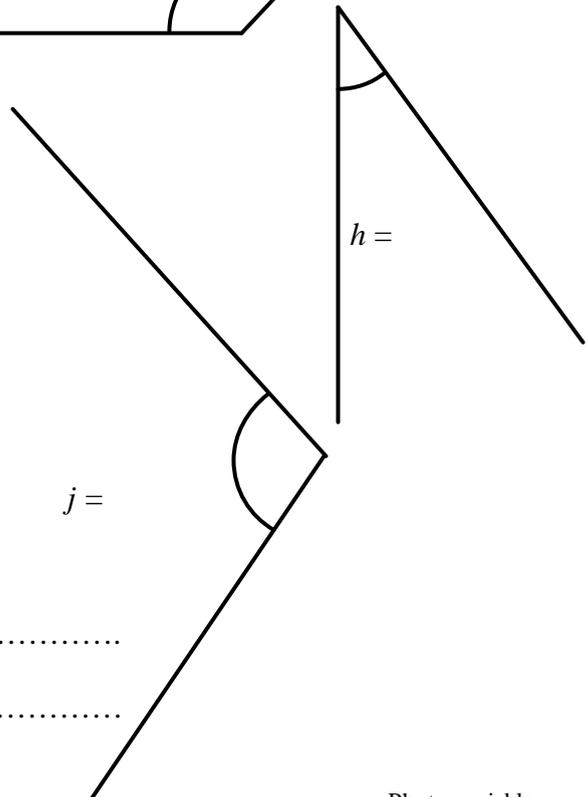
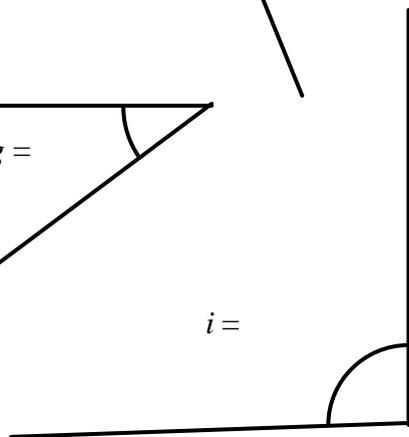
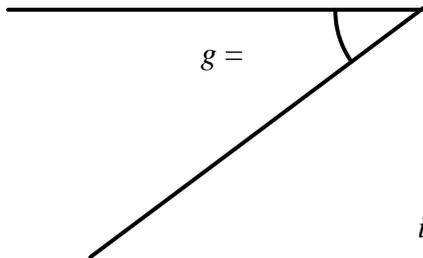
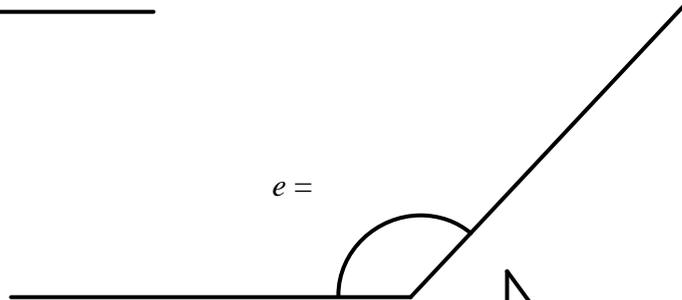
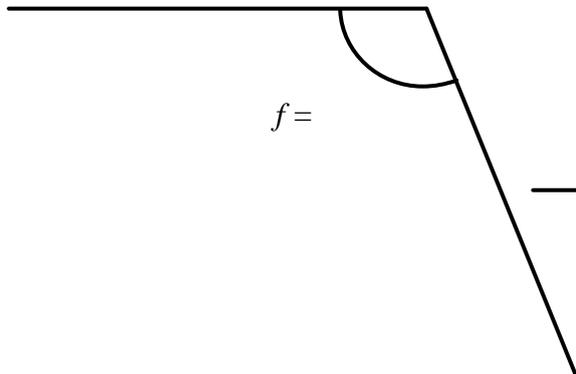
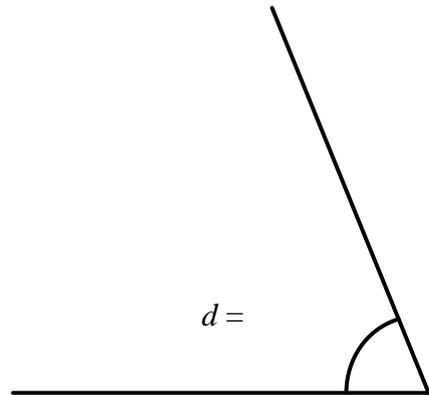
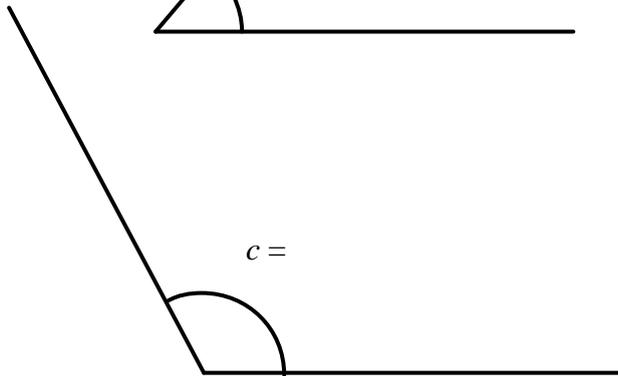
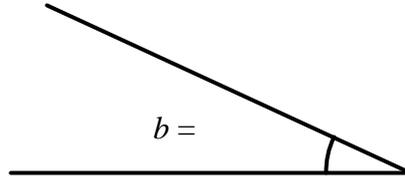
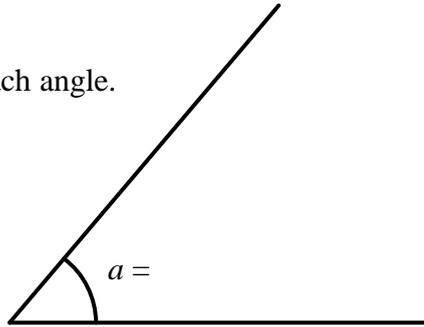


Angles

Worksheet

Your name:

Measure each angle.

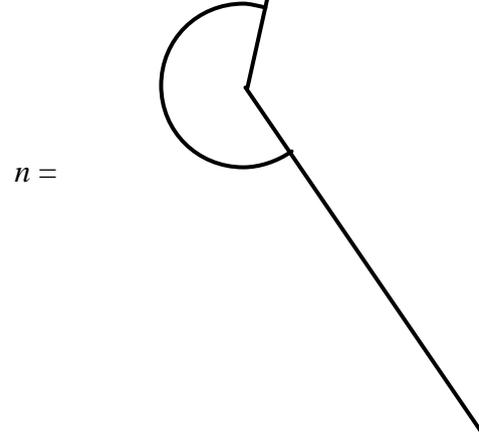
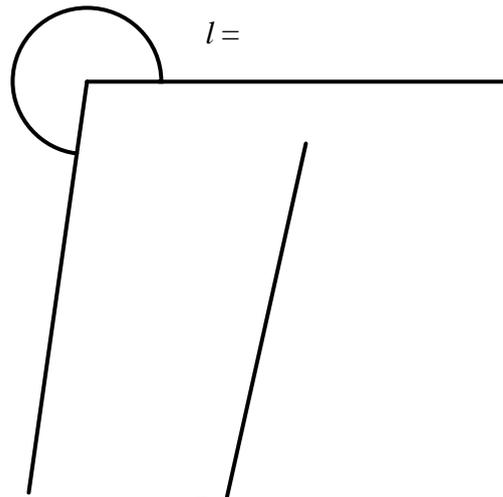
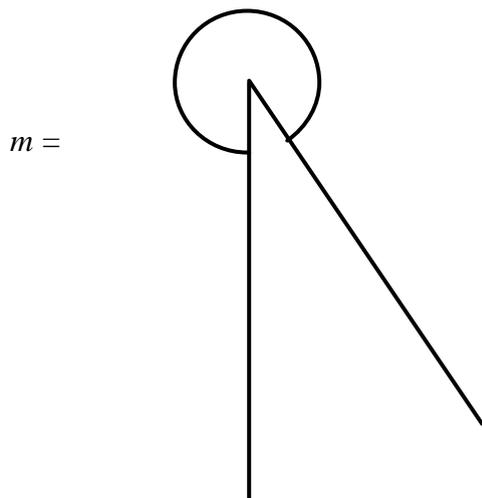
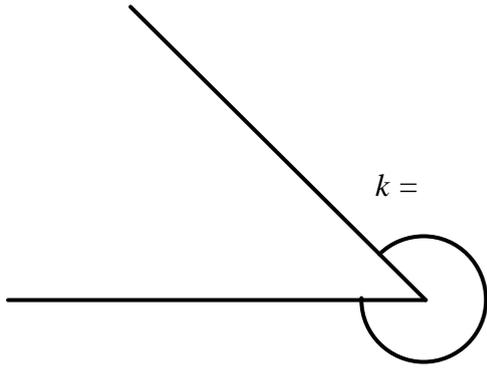


Which of these angles are acute?

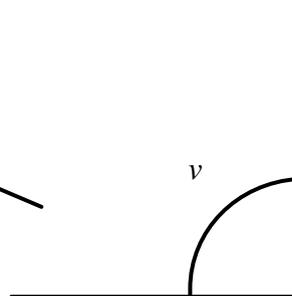
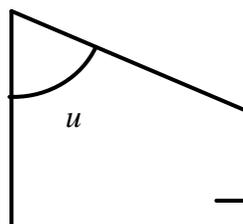
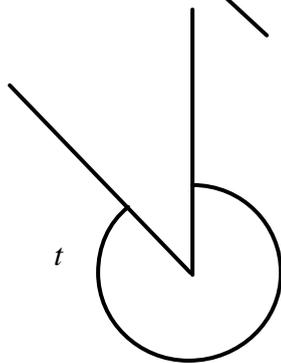
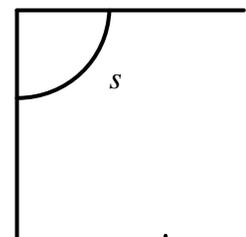
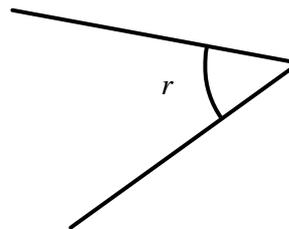
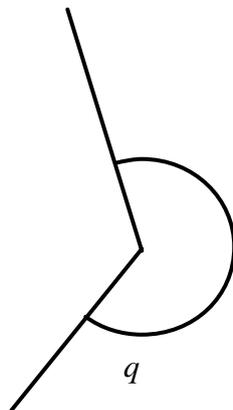
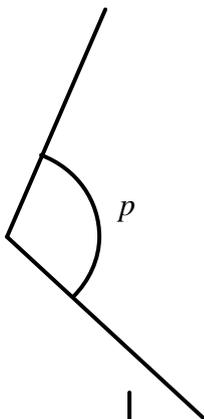
Which are obtuse?



Find the size of these reflex angles.



Without measuring, label each angle below: **right** angle, **acute** angle, **obtuse** angle or **reflex** angle.



Check your answers by measuring.



Teacher Notes

Unit Foundation Level, Working in 2 and 3 dimensions

Skills used in this activity

- measuring angles
- classifying angles

Notes

Students can use the Data Sheet (Page 1) for reference whilst measuring and classifying the angles on the Worksheet (Pages 2 and 3). An accompanying Powerpoint presentation with the same name can be used as an introduction or for revision later.

Answers (Allow $\pm 1^\circ$)

$$a = 50^\circ \quad b = 25^\circ \quad c = 118^\circ \quad d = 68^\circ \quad e = 133^\circ$$

$$f = 112^\circ \quad g = 37^\circ \quad h = 36^\circ \quad i = 92^\circ \quad j = 104^\circ$$

Acute angles: a, b, d, g, h

Obtuse angles: c, e, f, i, j

$$k = 315^\circ \quad l = 262^\circ \quad m = 326^\circ \quad n = 226^\circ$$

p obtuse angle

q reflex angle

r acute angle

s right angle

t reflex angle

u acute angle

v right angle

w obtuse angle

Approximate values:

$$p = 110^\circ$$

$$q = 236^\circ$$

$$r = 47^\circ$$

$$s = 90^\circ$$

$$t = 316^\circ$$

$$u = 67^\circ$$

$$v = 90^\circ$$

$$w = 155^\circ$$

