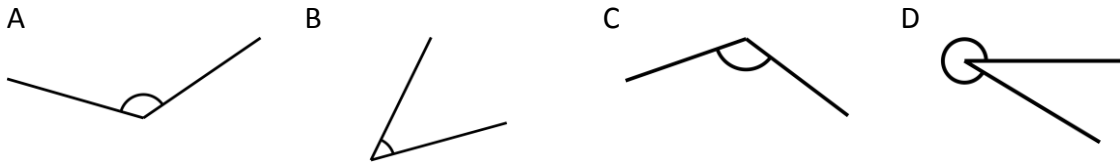


# Which grade are you.....?

# Angles: Foundation

1 Here is a list of angles

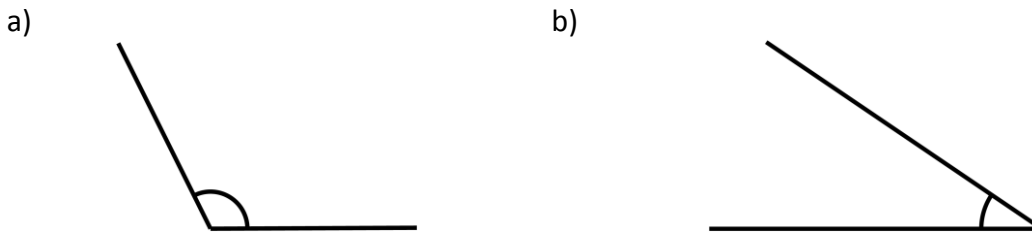


From the list write down

- a) an acute angle
- b) an obtuse angle
- c) a reflex angle

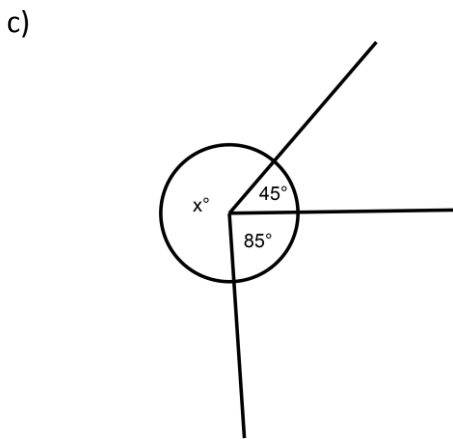
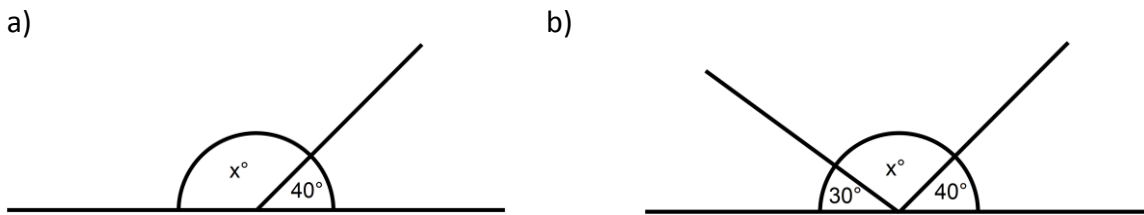
Grade G

2 Estimate the size of the following angles



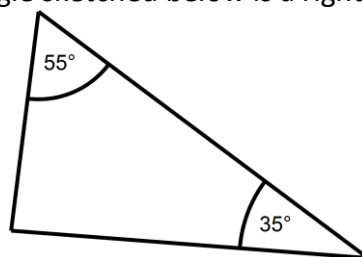
Grade F

3 Calculate the size of the angle  $x$  in each of the following



Grade F

4 Jake says that the triangle sketched below is a right angled triangle

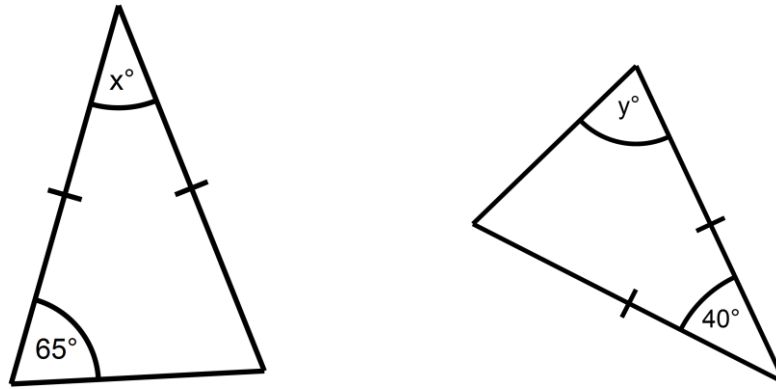


Is he correct?

Explain how you decided

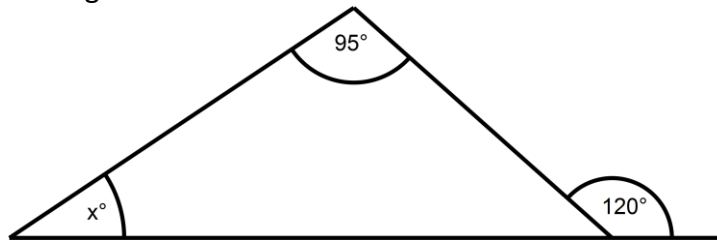
Grade E

5 Calculate  $x$  and  $y$



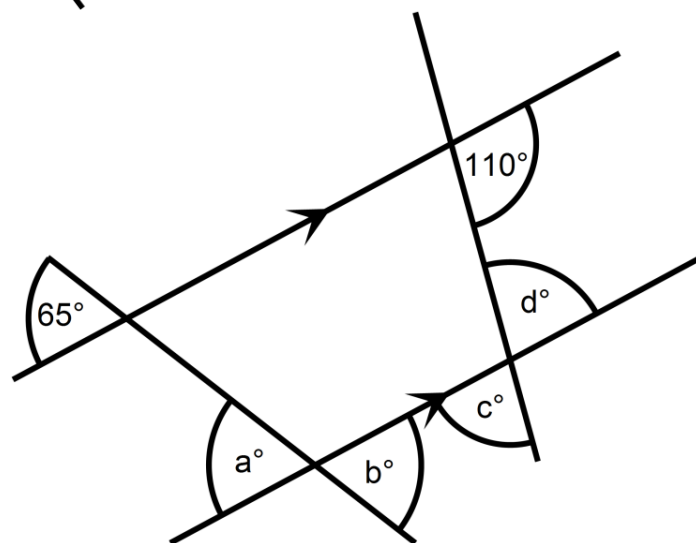
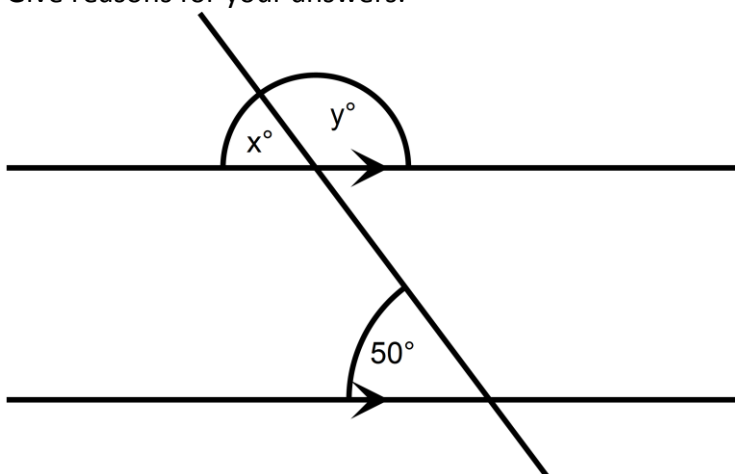
Grade D

6 Calculate the size of angle  $x$



Grade D

7 Work out the size of the angles marked.  
Give reasons for your answers.



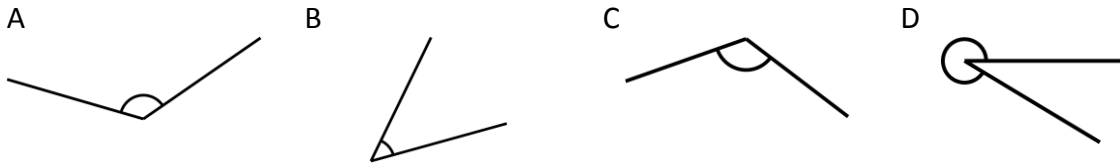
Grade C

# Which grade are you.....?

# Angles: Foundation

## ANSWERS

1 Here is a list of angles



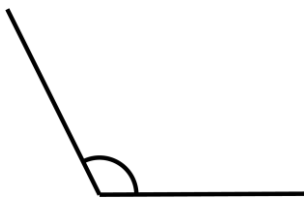
From the list write down

- a) an acute angle **B ✓**
- b) an obtuse angle **A or C ✓**
- c) a reflex angle **D ✓**

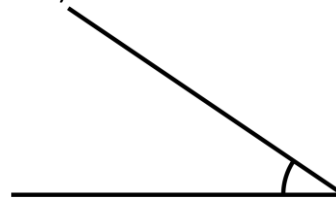
Grade G

2 Estimate the size of the following angles

a)  **$110^\circ - 130^\circ$  ✓**



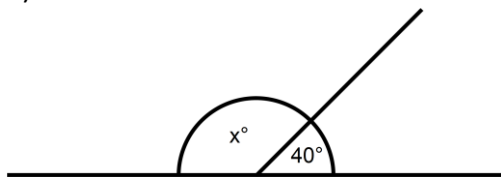
b)  **$25^\circ - 45^\circ$  ✓**



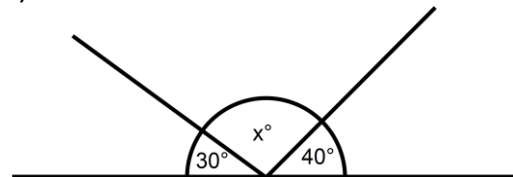
Grade F

3 Calculate the size of the angle x in each of the following

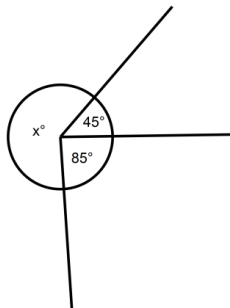
a)  **$140^\circ$  ✓**



b)  **$110^\circ$  ✓**

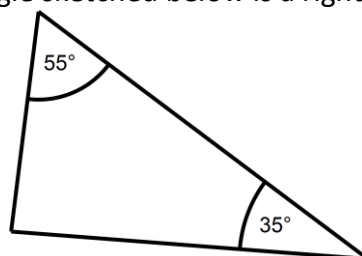


c)  **$230^\circ$  ✓**



Grade F

4 Jake says that the triangle sketched below is a right angled triangle



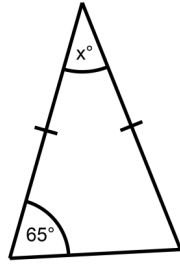
Is he correct?  **$55^\circ + 35^\circ = 90^\circ$  ✓**

Explain how you decided  **$180^\circ - 90^\circ = 90^\circ$  ✓ Yes he is correct  $90^\circ$  is a right angle ✓**

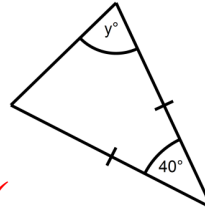
Grade E

5 Calculate x and y

$x = 50^\circ$  ✓✓



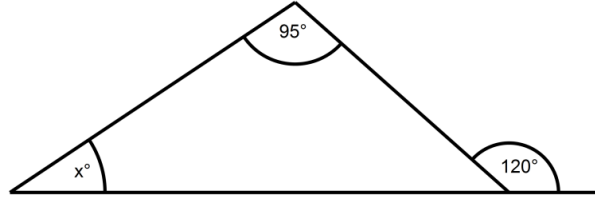
$y = 70^\circ$  ✓✓



Grade D

6 Calculate the size of angle x

$x = 25^\circ$  ✓✓✓



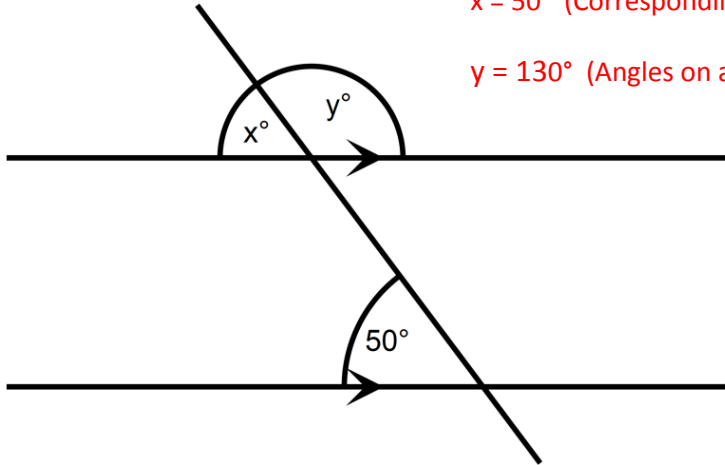
Grade D

7 Work out the size of the angles marked.

Give reasons for your answers.

$x = 50^\circ$  (Corresponding angles) ✓✓

$y = 130^\circ$  (Angles on a straight line add to 180) ✓✓

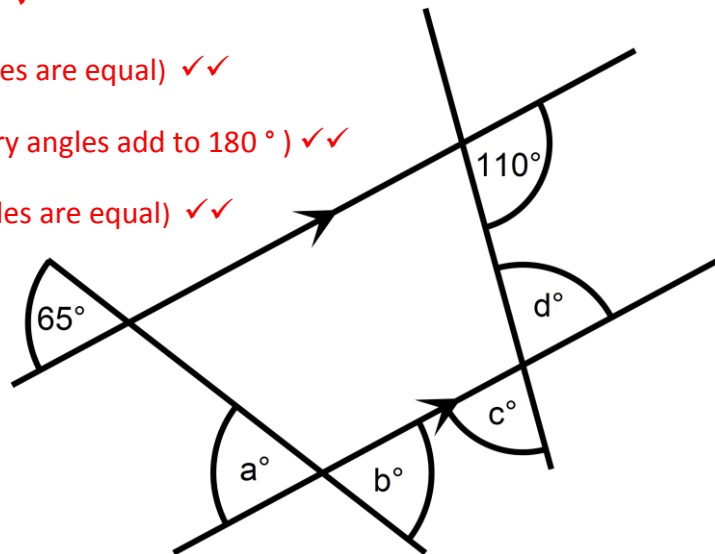


$a = 65^\circ$  (Corresponding angles) ✓✓

$b = 65^\circ$  (Vertically Opposite angles are equal) ✓✓

$d = 70^\circ$  (Interior / supplementary angles add to 180) ✓✓

$c = 70^\circ$  (Vertically Opposite angles are equal) ✓✓



Grade C

30 marks