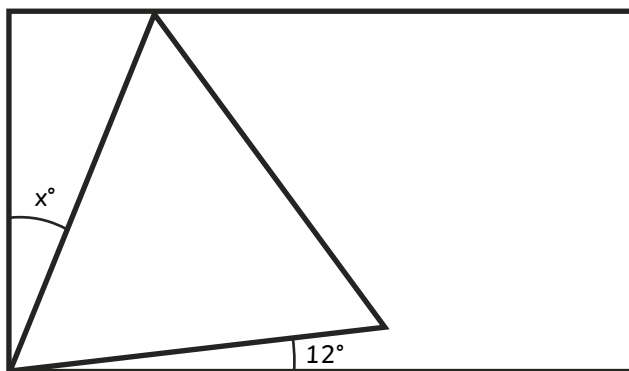# Angle Reasoning

I can solve reasoning questions about angles.

Solve these reasoning questions.

Question 1

An equilateral triangle is placed inside a rectangle.
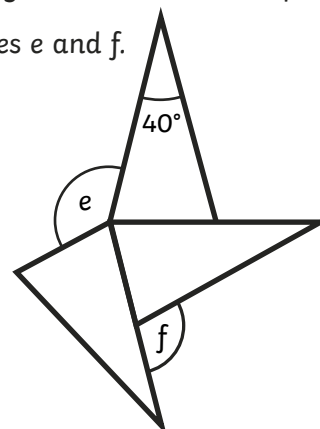
Calculate angle x.

Question 2

This diagram shows three identical isosceles triangles arranged around a central point.

Calculate angles e and f.

Question 3

This diagram shows two straight lines intersecting with two parallel lines.

Calculate angles x and y.

Show your working out:

x = _____°

Show your working out:

e = _____°   f = _____°

Show your working out:

x = _____°   y = _____°

Angle Reasoning

I can solve reasoning questions about angles.

Solve these reasoning questions.

Question 1

Two squares are on a straight line.

Calculate angles x and y.

x = _____°   y = _____°

Question 2

This diagram shows five **identical isosceles triangles** arranged around a central point.
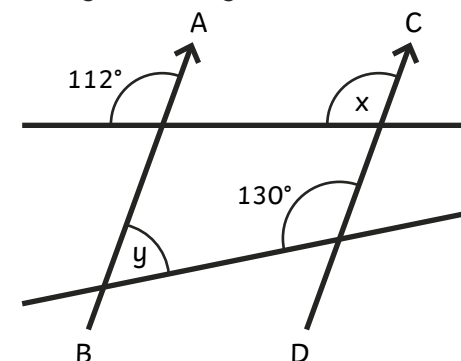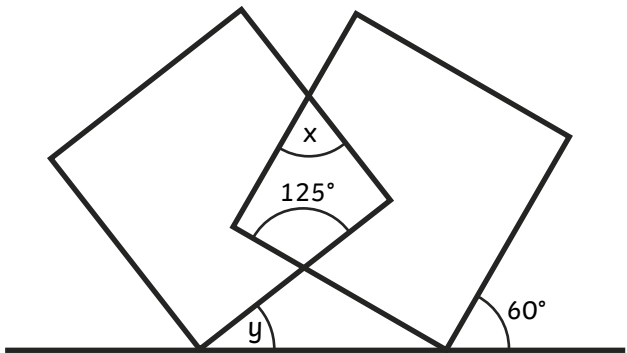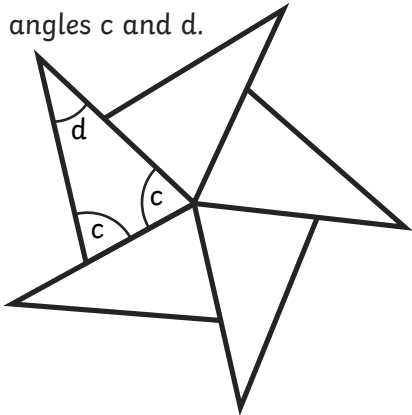
Calculate angles c and d.

c = _____°   d = _____°

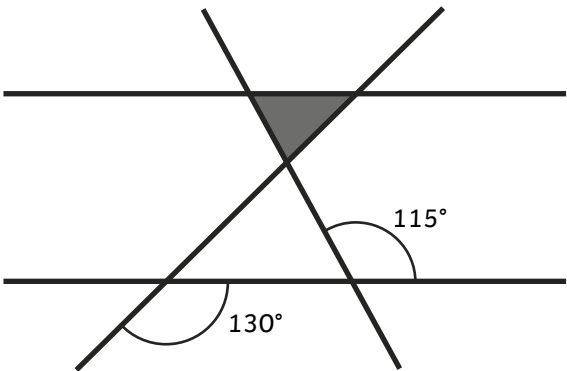## Question 3

This diagram shows two straight lines intersecting with two parallel lines. Calculate the angles of the shaded triangle.

Shaded triangle = ____°, ____° and ____°

Show your working out:

Show your working out:

Show your working out:

Angle Reasoning

I can solve reasoning questions about angles.

Solve these reasoning questions.

Question 1	Question 2	Question 3
Two equilateral triangles are on a straight line. Calculate angles x and y.	This diagram shows ten triangles arranged around a central point. Calculate the angles of the shaded triangle.	This diagram shows two straight lines intersecting with three parallel lines. Calculate angles e and f.

Question 1

Two equilateral triangles are on a straight line.

Calculate angles x and y.

Question 2

This diagram shows ten triangles arranged around a central point.

Calculate the angles of the shaded triangle.

Question 3

This diagram shows two straight lines intersecting with three parallel lines.

Calculate angles e and f.

Show your working out:

$x = $ _____° $y = $ _____°

Show your working out:

$h = $ ____° and $k = $ ____°

Show your working out:

$e = $ ____° and $f = $ ____°

Angle Reasoning

Question	Answer	
1.	x = 18°	
2.	e = 150°	f = 110°
3.	x = 112°	y = 50°

Question	Answer		
1.	x = 55°	y = 25°	
2.	c = 72°	d = 36°	
3.	50°	65°	65°

Question	Answer			
1.	x = 155°		y = 85°	
2.	c = 72°	h = 108°	d = 36°	k = 18°
3.	e = 110°		f = 20°	