# Bearings on polar grids <br> Downloadable Resource 

Mr Coward

## Try this

Read Cala's statement. Can you make similar statements about the other points?


## Connect

What are the bearings of $A$ and $B$ ?

Could you add two more points to form a rectangle?

What are the bearings of these new points?


## What calculation does not find the size of the angle between lines?



## Option 1

$$
360 \div 16
$$

Option 2

$$
90 \div 4
$$

Option 3
$180 \div 9$

## Independent task

1) Find the bearing of $A, B, C$, D, and E from O. What do you notice?
2) Draw a bearing of $60^{\circ}$ of the three diagrams where it is easiest.


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## Explore

Describe the position of two more points that form the vertices of the following quadrilaterals:

1) Kite
2) Square
3) Rhombus
4) Rectangle
5) Isosceles trapezium


## Pause the video to complete your task



Resume once you're finished

## Explore - hints



Two pairs of equal sides.
Diagonals meet at a right angle Rhombus


Four equal sides.
Diagonals meet at a right angle
Diagonals not equal length

## Square



Four equal sides.
Diagonals meet at a right angle
Diagonals are equal length

Isosceles trapezium


Non-parallel length are equal.
Diagonals do not meet at a right angle

Explore - hints


Explore - hints



Explore - hints


## Answers



Answers


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