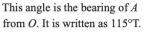
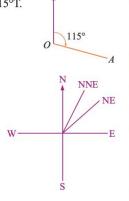
WALT about compass bearings Success Criteria I know the directions and understand that the full rotation is 360°

Plotting a course for a ship or an aircraft requires accurate directions. These directions are usually given in the form of bearings. The agreed convention is that the direction of travel is measured by a clockwise rotation from the true north direction. The bearing of A from O is the measure of the angle between the line OA and the line through O in the true north direction. The angles are always written using three digits.

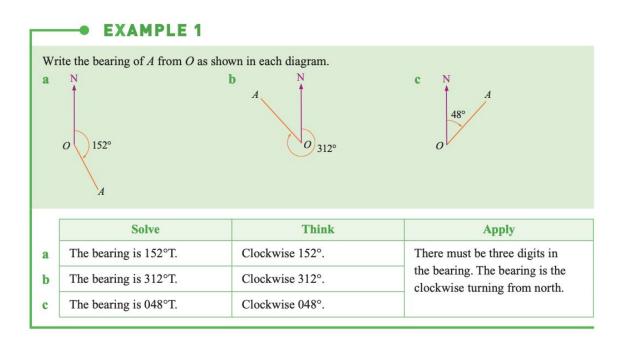


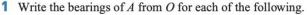
Bearings are sometimes given using the compass rose. In this case the bearings are given with respect to north, south, east and west. For example, NNE is shown.

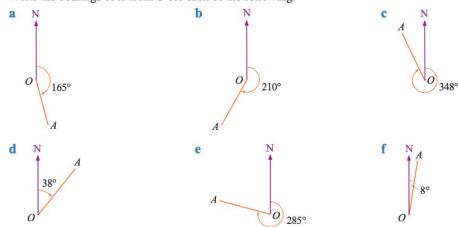


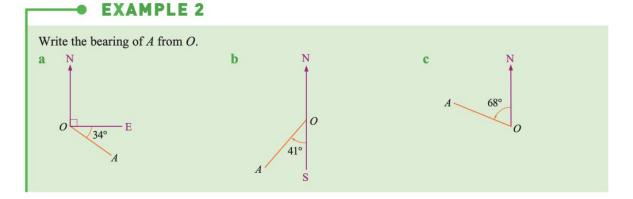
N

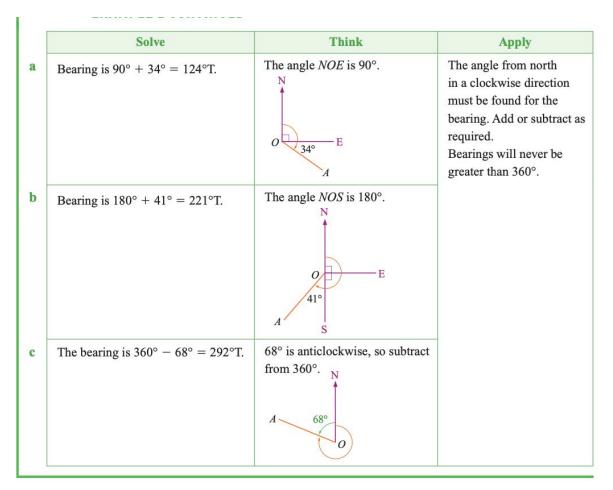




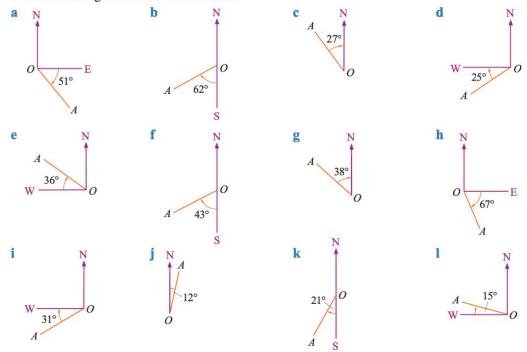








2 Write the bearing of *A* from *O* shown below.



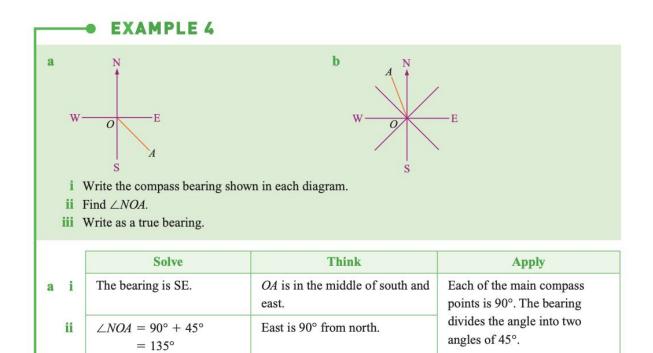
EXAMPLE 3

Draw a diagram to represent the position of A from O for each of the following compass bearings.							
a 110°T	b 048°T	c 328°T					

	Solve	Think	Apply
a N	110° 	Clockwise 110° from north.	Always turn in a clockwise direction from north.
b N	A 48°	Clockwise 48° from north.	
c A	N 0 328°	Clockwise 328° from north.	

3 Draw a diagram to represent the position of A from O for each of these compass bearings.

a	128°T	b	022°T	c	312°T	d	231°T
e	005°T	f	285°T	g	185°T	h	300°T
i	073°T	j	355°T	k	133°T	1	099°T



	Solve	Think	Apply
b i	The bearing is NNW.	AO is between NW and N. The angle between	
ii	$\angle NOA = 90^{\circ} + 90^{\circ} + 90^{\circ} + 45^{\circ} + 22.5^{\circ}$ = 337.5°	A is close to north, so the bearing is close to 360° .	these dividers is 22.5°.
iii	337.5°T	The angle from north.	

The angle from north.

4 Here is a compass rose.

iii W and NW

iii SE

v SSW

a	Find	the	angle	between:
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i N and E

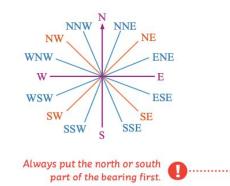
v SW and WSW

135°T

iii

ii S and SW

- iv E and ESE vi W and NNW
- **b** Write each of these compass bearings as true bearings. i NNE
 - ii ENE
 - iv SSE
 - vi WSW viii NW
 - vii WNW



Check your answers

1	a 165°T	b	210°T	с	348°T
	d 038°T	е	285°T	f	008°T
2	a 141°T	b	242°T	c	333°T
	d 245°T	е	306°T	f	223°T

