

Name:

Exam Style Questions

Compass Directions



Corbettmaths

Equipment needed: Pen, pencil & ruler

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

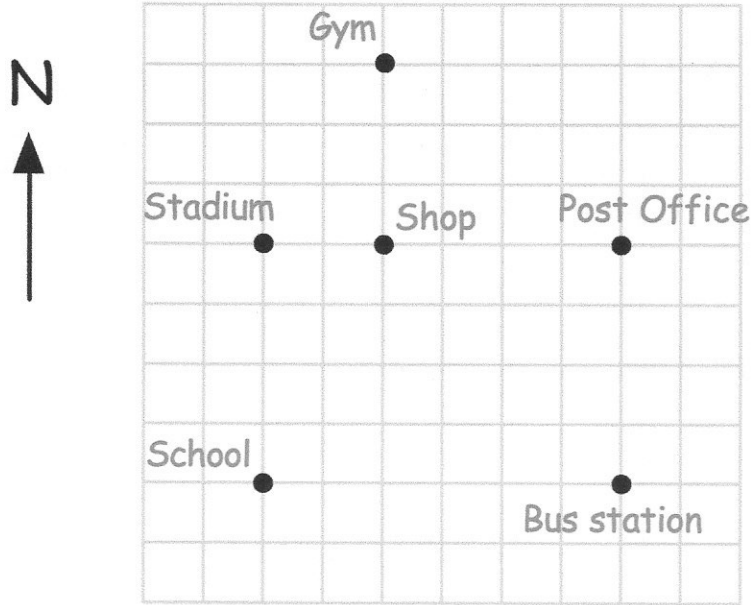
Video 27b



Answers and Video Solutions



1. Shown below is a map of the landmarks in a town.



(a) Which landmark is due south of the post office?

Bus Station
(1)

(b) Which landmark is due west of the shop?

Stadium
(1)

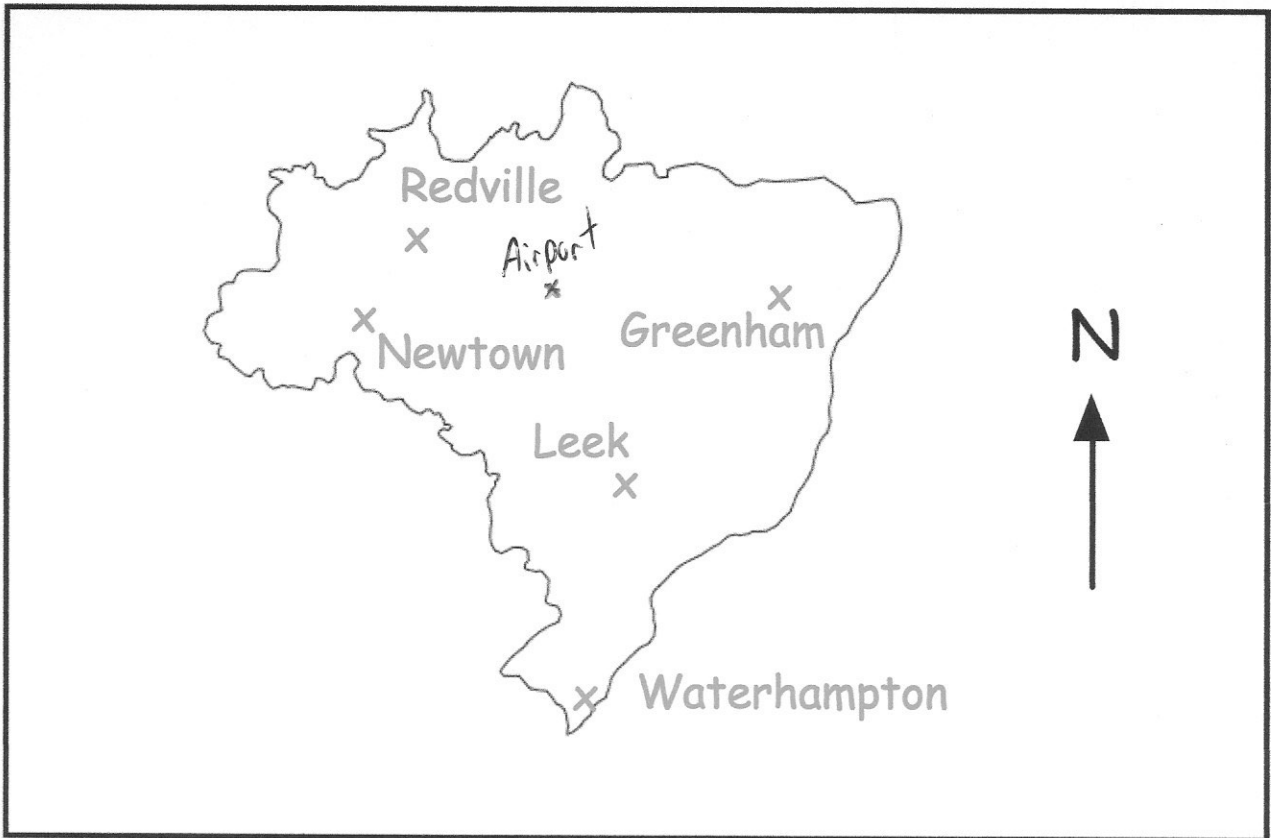
(c) What is the compass direction of the bus station from the school?

East
(1)

3. The map below shows the five towns on an island.



Scale: 1cm represents 10 kilometres



(a) Which town shown on the map is the furthest south?

Waterhampton
(1)

(b) Which town shown on the map is the furthest west?

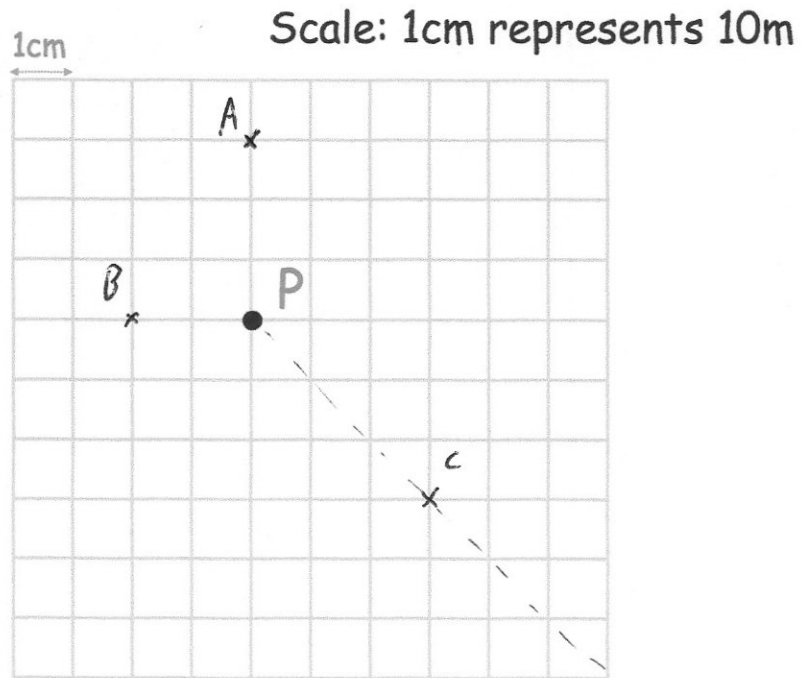
Newtown
(1)

There is an airport 30 kilometres due west of Greenham.

(c) Show the airport on the map with an x.

(2)

4.



The point A is 30 metres North of point P.

(a) Mark point A on the grid

(1)

The point B is 20 metres West of point P.

(b) Mark point B on the grid

(1)

The point C is south east of point P.

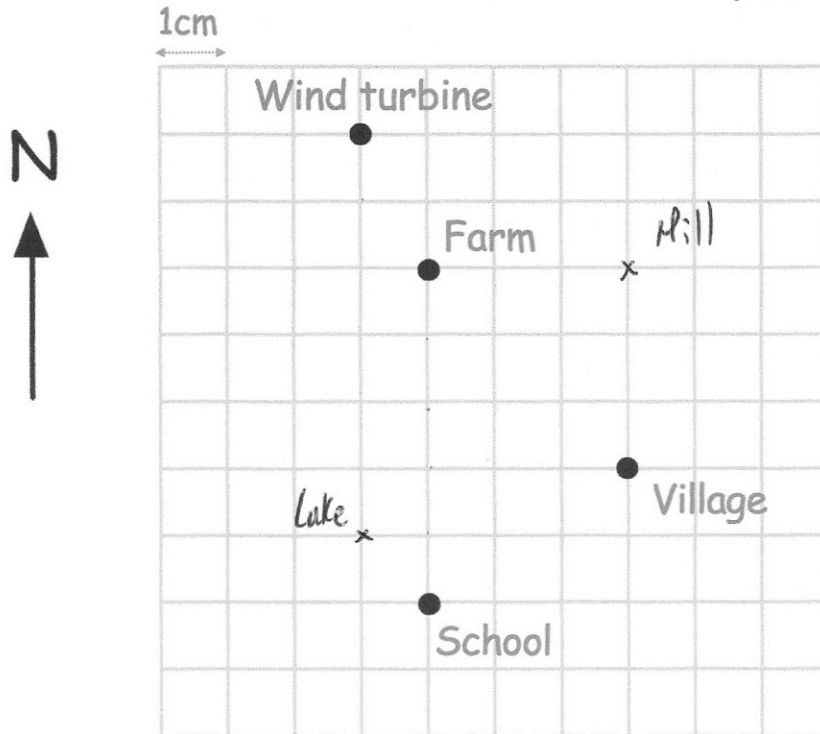
(c) Mark a possible location for point C on the grid.

(1)

5. Here is a map of a rural area.



Scale: 1cm represents 5km



(a) What is the actual distance of the farm from the school?

$$5 \times 5 = 25 \text{ km}$$

$$\begin{array}{r} 25 \text{ km} \\ \hline \end{array} \quad (1)$$

A lake is 30 kilometres south of the wind turbine.

(b) Mark and label the lake on the map.

$$30 \div 5 = 6 \text{ cm}$$

(2)

A hill is 15 kilometres east of the farm.

(b) Mark and label the hill on the map.

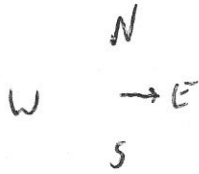
$$15 \div 5 = 3 \text{ cm}$$

(2)

6. Ruby is facing east.
She turns 90 degrees anticlockwise.



Which direction is she now facing?

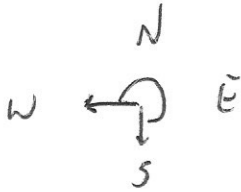


..... North
(1)

7. Lloyd faces west.
He then turns clockwise to face south.



How many degrees did Lloyd turn?

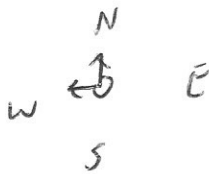


..... 270°
(1)

8. Martine is facing north.
She turns clockwise to west.

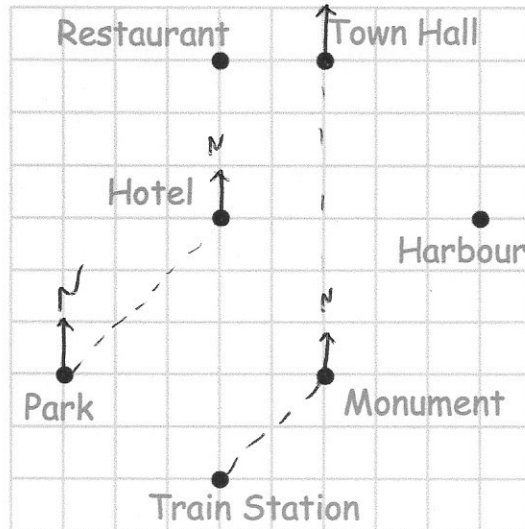


What fraction of a turn has Martine completed?
Give your answer in its simplest form.



..... $\frac{3}{4}$
(1)

9. The map below shows some landmarks in a town.



000°
N
270° W E 090°
S
180°

Ryan is at the town hall.
He walks directly to the monument.

(a) Write down his direction of travel as a three figure bearing.

S

180°

.....
(1)

(b) What is the three figure bearing of the harbour from the hotel?

E

090°

.....
(1)

(c) What is the three figure bearing of the hotel from the park?

NE

045°

.....
(1)

Later that day Ryan leaves the monument and walks directly towards a landmark on a bearing of ~~135°~~
225°

(d) Towards which landmark is Ryan walking?

SW

Train Station

.....
(1)

10. The bearing of a lighthouse from a port is 270°



Complete the sentence below using the correct compass direction.

000
N
270 W E 090
S
180

The lighthouse is West of the port.

(1)

11. The bearing of the school from the bus station is 135°



Complete the sentence below using the correct compass direction.

The school is South East of the bus station.

(1)

12. Ethan is travelling north east.



(a) Write down his direction of travel as a three figure bearing.

..... 045
(1)

Mason is travelling ^{north} ~~south~~ west.

(b) Write down his direction of travel as a three figure bearing.

..... ~~045~~ 315
(1)