

Getting to Grips with Grid References!



The background of the slide is a map of India and its surrounding regions, including parts of Southeast Asia and the Middle East. The word "INDIA" is visible in large letters across the top of the map. The map is partially obscured by a semi-transparent white box containing the text.

Learning Objective

To understand how to use four-figure and six-figure grid references.

The background of the slide is a map of India and its surrounding regions, including parts of Southeast Asia and the Middle East. The word "INDIA" is visible in large letters across the top of the map. The map is partially obscured by a semi-transparent white box containing the text.

Success Criteria

- To understand the purpose of grid references.
- To use four-figure and six-figure grid references to locate features on a map.
- To apply the use of four-figure and six-figure grid references to an OS map.

OS Map Symbols

1



viewpoint

2

CG

coastguard

3



picnic site

4



golf course

5



parking

6



bus/coach station

OS Map Symbols

7



campsite

8



information centre

9



public house

10



windmill

11



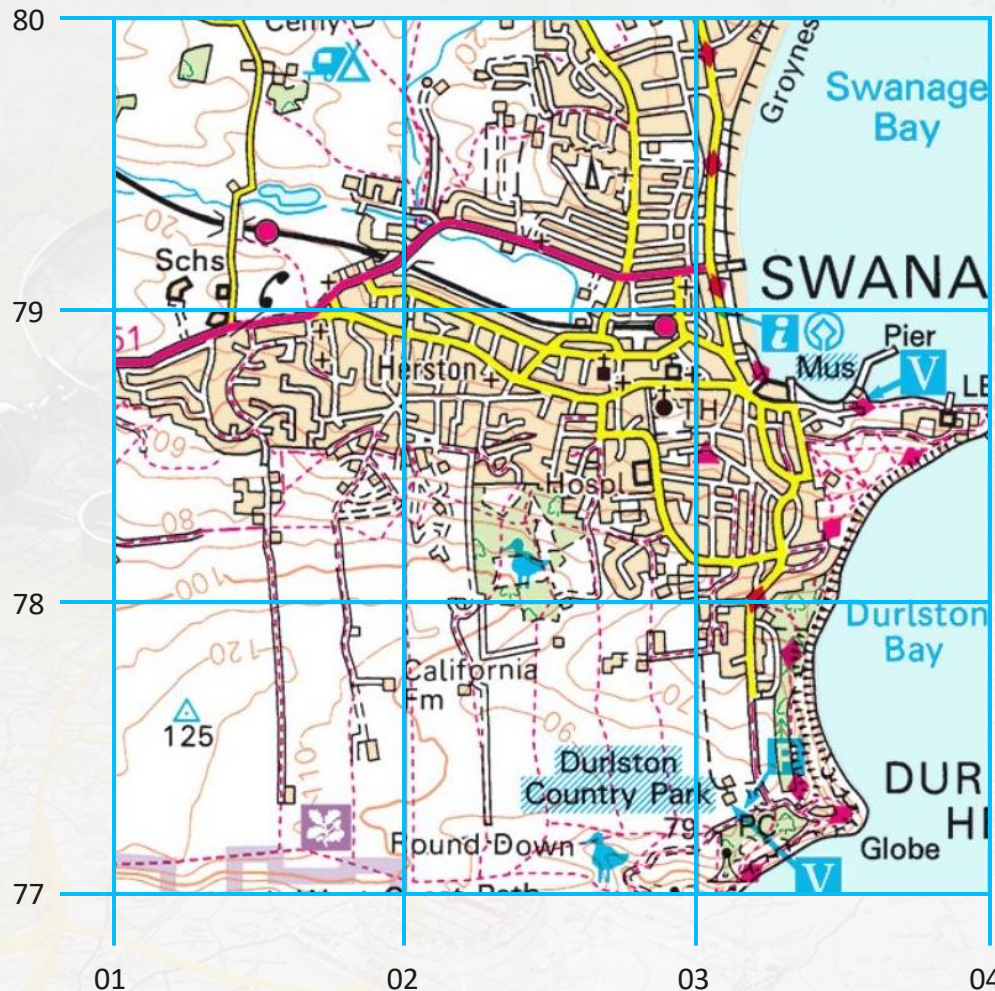
place of worship

12



telephone

What Are Four-Figure Grid References?



Four-figure grid references are used to locate a particular grid square on a map.

Why might this be useful?

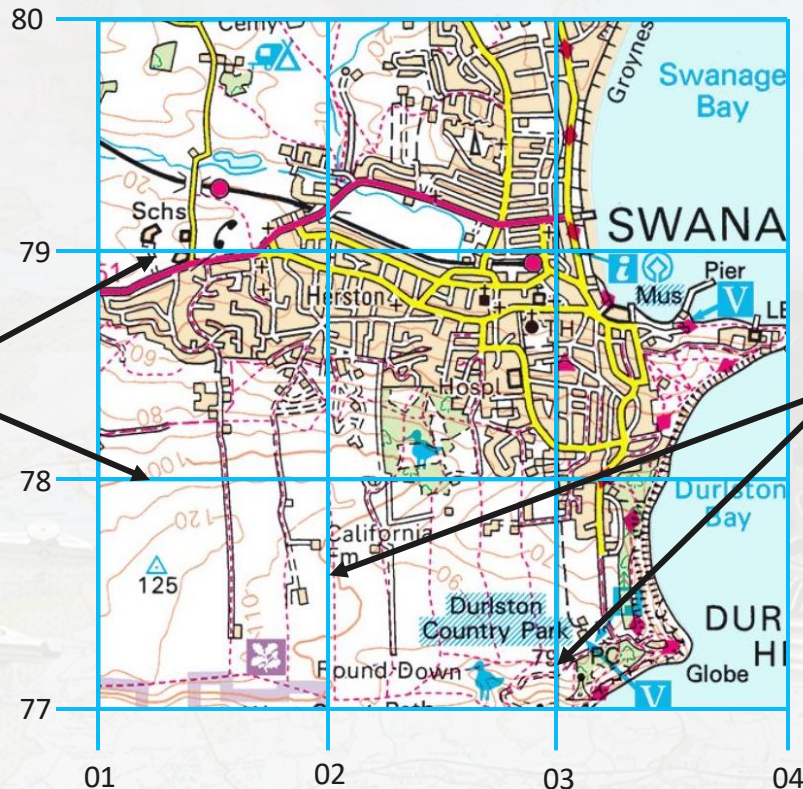
To create a four-figure grid reference you use the grid lines and grid numbers.

What Are Four-Figure Grid References?



The horizontal gridlines are called **northings** and they increase as you move northwards.

The vertical gridlines are called **eastings** and they increase as you move eastwards.



What Are Four-Figure Grid References?



How to find a grid square.

If the grid reference is:

3 2 2 6

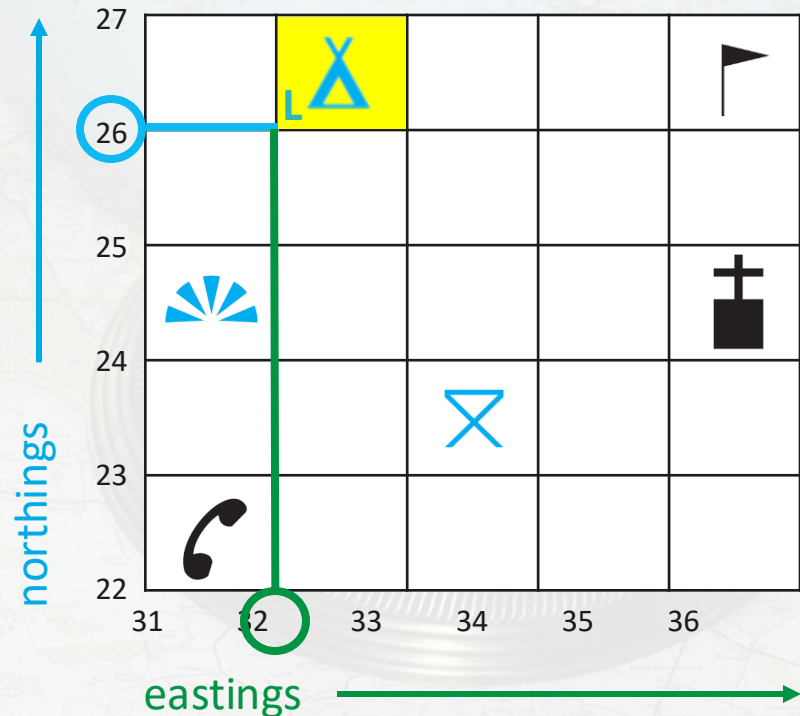
The first two numbers give the eastings.

The second two numbers give the northings.

Locate the point where the easting and northing grid lines meet.

This is the bottom Left-hand corner of grid square 3226...

...the campsite.



Remember.... eastings
then northings!

Along the corridor and up the stairs!

What Are Four-Figure Grid References?



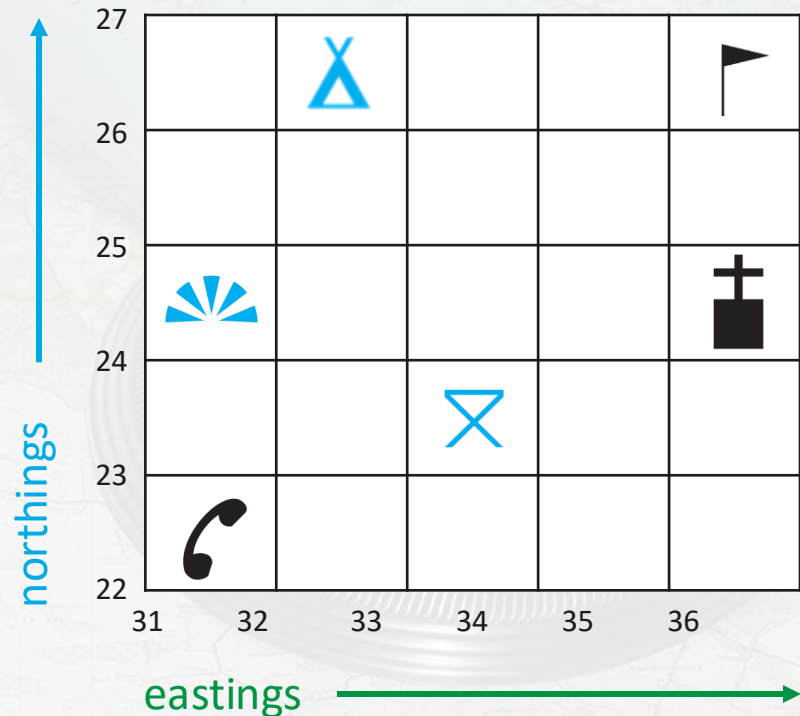
Your Turn!

1 What OS map symbol is found in each of these grid squares?

- a. 3526 golf course
- b. 3124 viewpoint
- c. 3323 picnic site

2 What is the grid reference for the:

- a. church? 3524
- b. telephone? 3122



viewpoint



telephone



camp site



picnic site



golf course



church

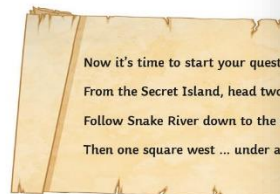
Treasure Island!

Complete the **Treasure Island Activity Sheet**.



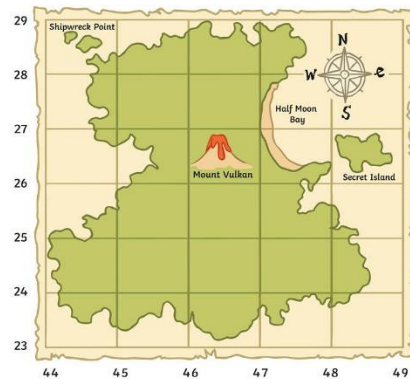
3. At last.... the final clue to the treasure!

a) Which grid square is the treasure buried in?



Treasure Island

You have found an old treasure map... but it is not clear where the treasure is buried as a lot of information is missing!



Key:

1. Using your own symbols, add the following locations onto the map:

- a) The Miserable Mountains are in grid squares 4527 and 4627.
- b) There is a pirate ship in grid square 4426.
- c) Snake River starts at Mount Vulkan and flows through grid squares 4625, 4524 and 4523 to the sea.
- d) The Murky Marshes are in grid squares 4624, 4724, 4824 and 4725.
- e) Palm Tree Forest covers grid squares 4423, 4424, 4425, 4524 and 4525.

2. Now the map is complete...but are you worthy of the treasure? It is time to test your map skills. What are the four-figure grid references for these locations?

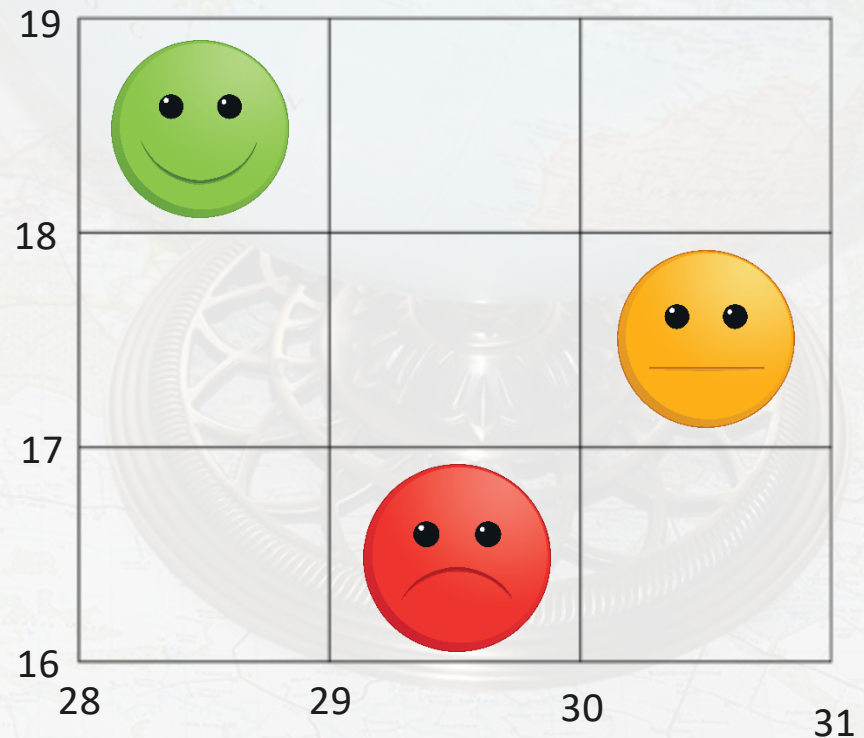
- a) Shipwreck Point _____
- b) Mount Vulkan _____
- c) The Secret Island _____
- d) Half Moon Bay _____ and _____



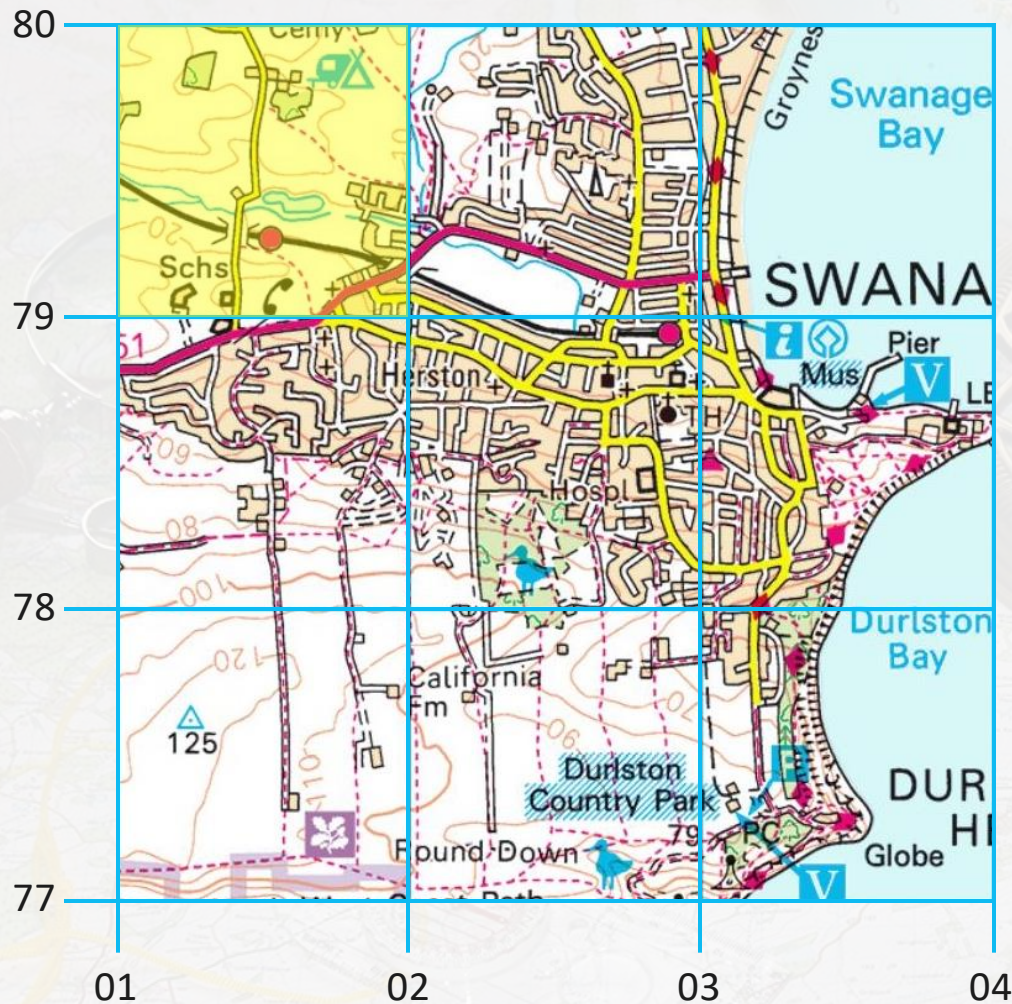
Feeling Maptastic?

Success Criteria

- To understand the purpose of grid references.
- To use four-figure grid references to locate features on a map.



What Are Six-Figure Grid References?

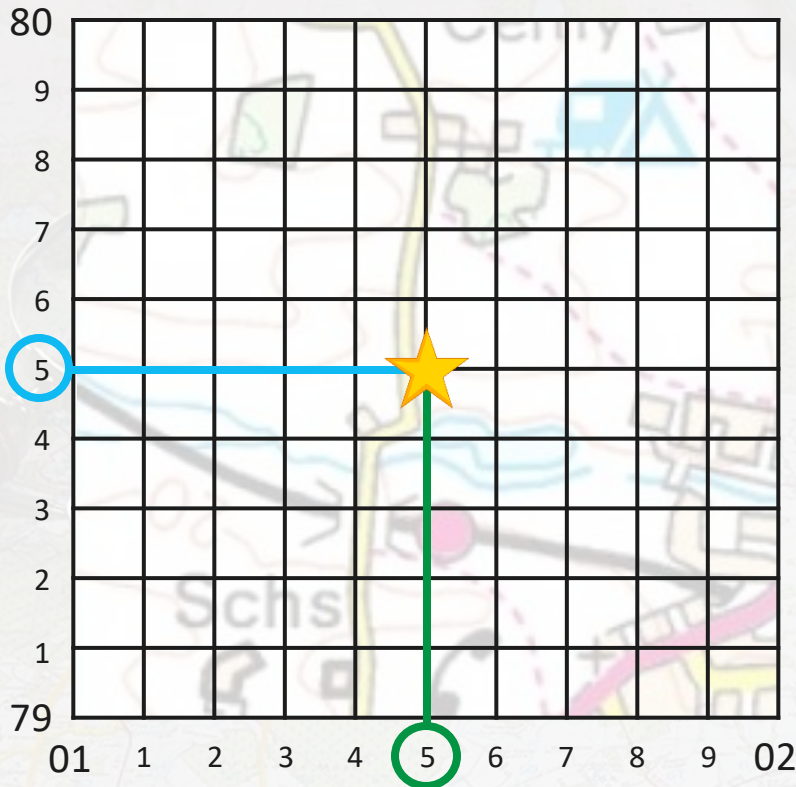


Four-figure grid references are used to find a grid square...

...but we can use six-figure grid references to find an exact location within a grid square, so they are much more accurate than four-figure grid references!

Let's look at grid square 0179 in more detail...

What Are Six-Figure Grid References?



The grid square is divided into tenths.
Example:

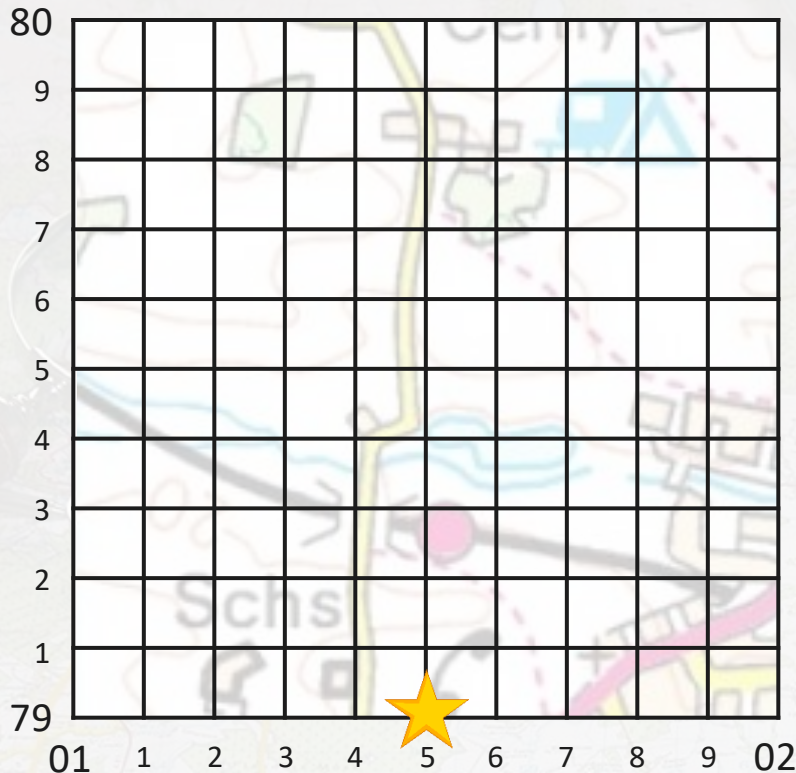
015795

The first three numbers give the easting which includes the number of tenths.

The last three numbers give the northing which includes the number of tenths.

Find the point where the easting and northing grid lines meet to find your grid reference point.

What Are Six-Figure Grid References?



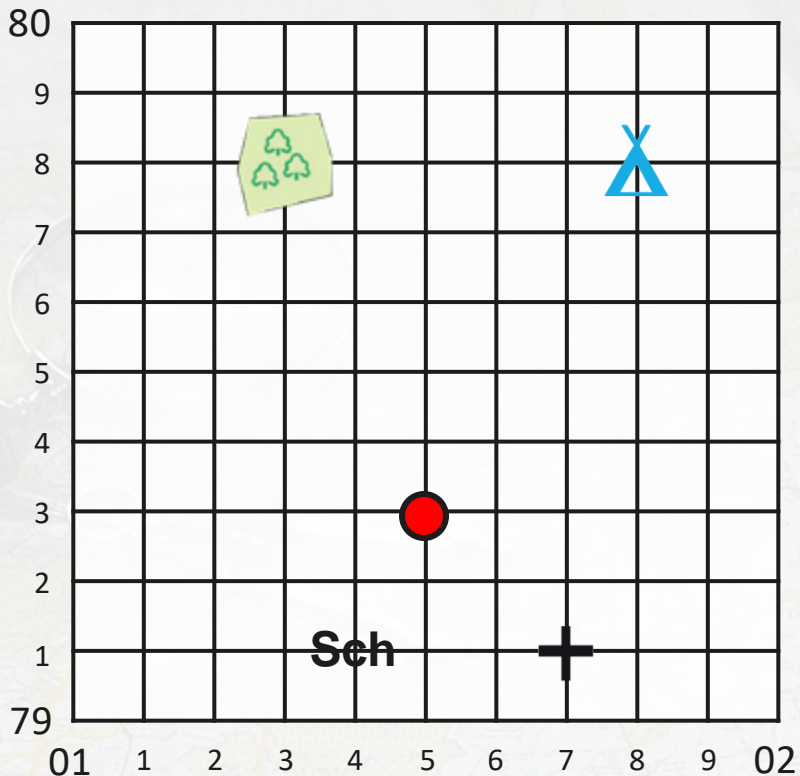
What is the six-figure grid reference of the star?

If a symbol is **exactly** on a grid line, this means 0 tenths along or up. You must write the 0 in the grid reference!

e.g. The star is:

015790

What Are Six-Figure Grid References?



campsite



church



woodland



railway
station

Sch

school

Your Turn!

- 1 What OS map symbol is found at:
 - a. 015793 railway station
 - b. 018798 campsite
- 2 What is the six-figure grid reference for:
 - a. the school? 014791
 - b. the church? 017791
 - c. the woodland? 013798

What Are Six-Figure Grid References?



Important!

On a map, the grid squares do not have the tenths marked on them... so you have to use a ruler to help you or carefully estimate where the tenths are!

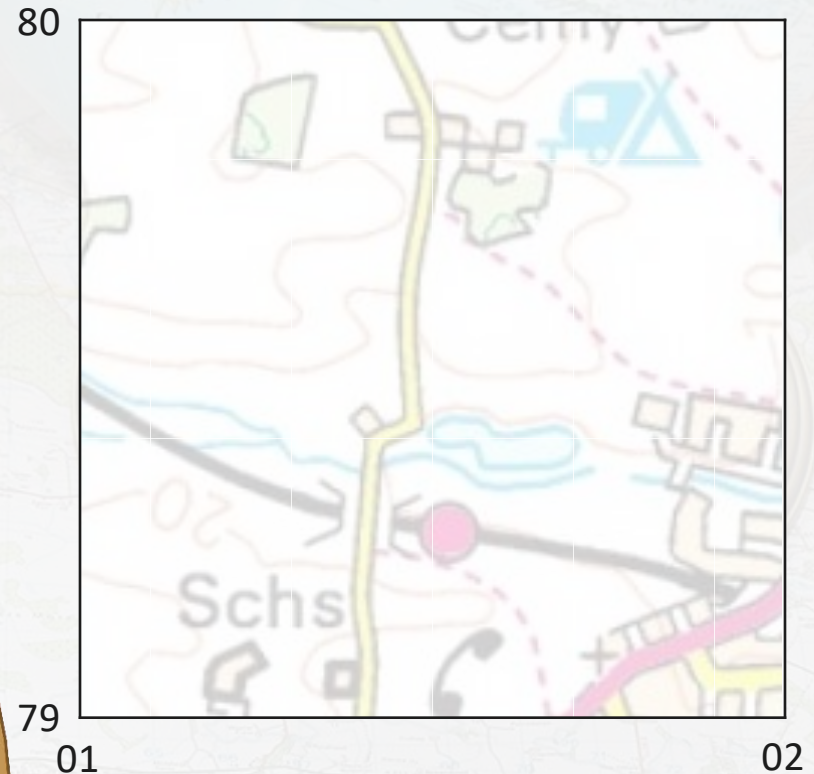


Figure It Out: Swanage

Complete the [Swanage Map Activity Sheet](#).



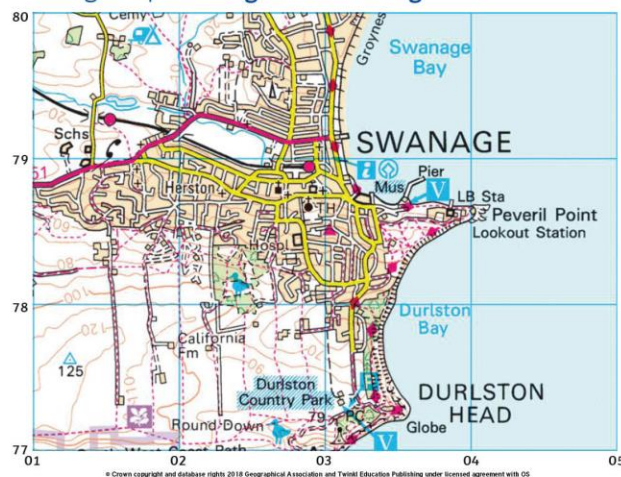
Answer these questions using the map of Swanage.

- Find Swanage Pier on the map. Which of the following is its four-figure grid reference?
 - 0378
 - 0377
 - 0279
- Find Durlston Country Park on the map. Which of the following is its six-figure grid reference?
 - 0377
 - 0277
 - 7703
- What is the name of the bay found in grid square 0478?
- What is located at six-figure grid reference 0279?
 - a church
 - a triangulation pillar
 - a school
- What is located at six-figure grid reference 0377?
 - railway station
 - a hospital
 - a campsite

Extension

Name four features that can be found in grid square 0377.

Swanage Map Four-Figure and Six-Figure Grid References



What is the purpose of grid references?

Grid references help us to _____

Complete the paragraph below:

_____ more _____ four-figure _____ location _____

Four-figure grid references are used to find a _____ location.
Six-figure grid references are used to find an exact _____ location.
Six-figure grid references are much _____ accurate than four-figure grid references.



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