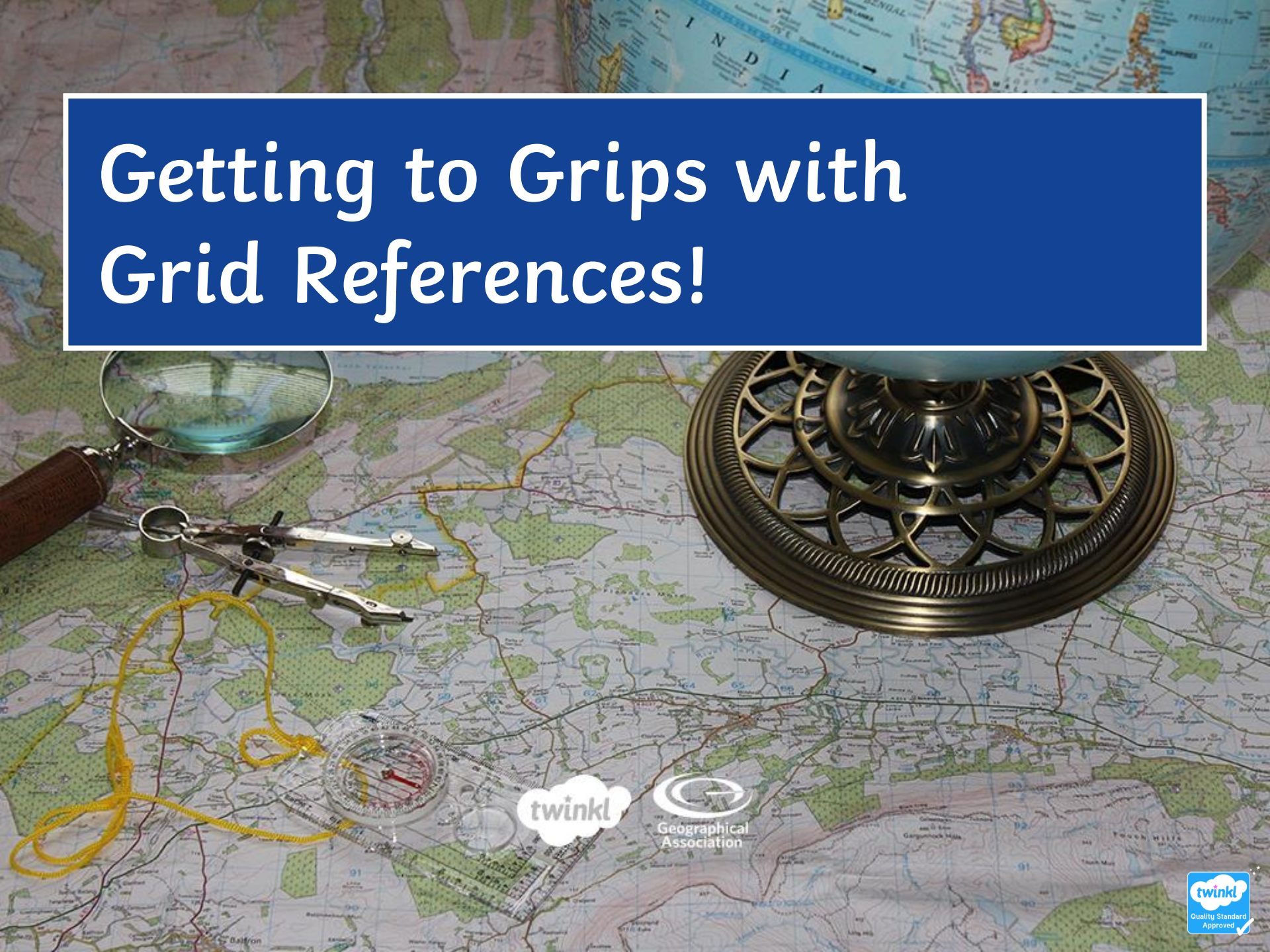
Getting to Grips with Grid References!



Learning Objective

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

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.

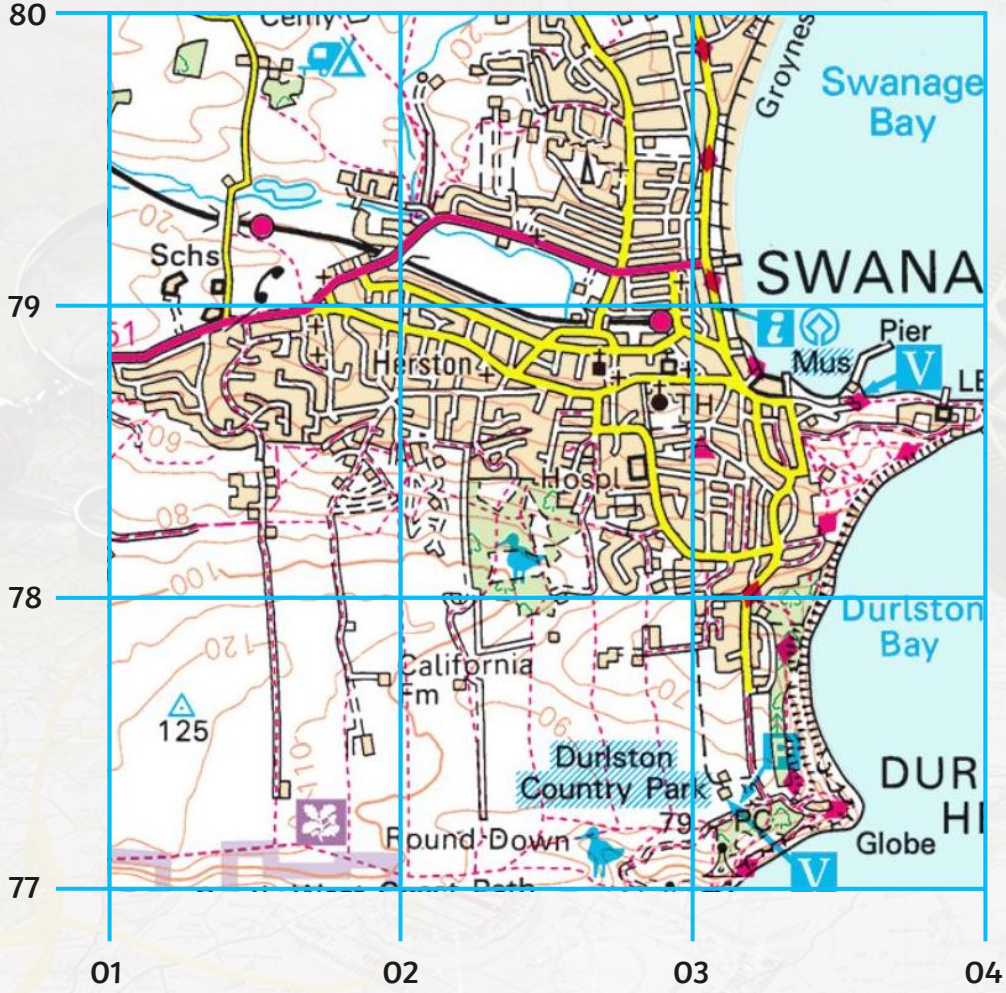
OS Map Symbols

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	PH	public house
10		windmill
11		place of worship
12		telephone

What Are Four-Figure Grid References?



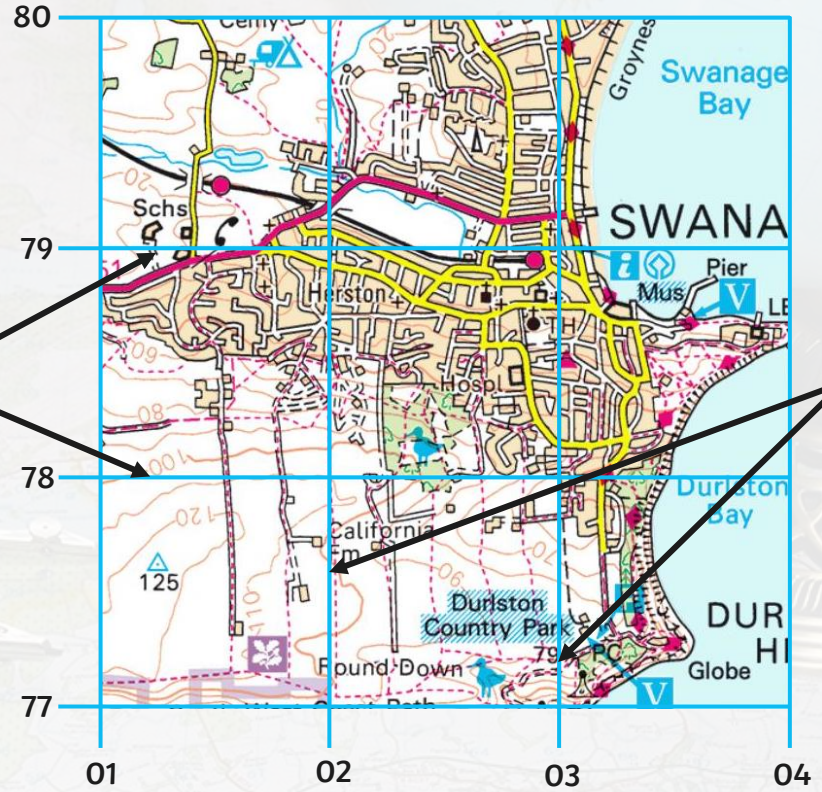
Four-figure grid references are used to locate a particular grid square on a map.

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:

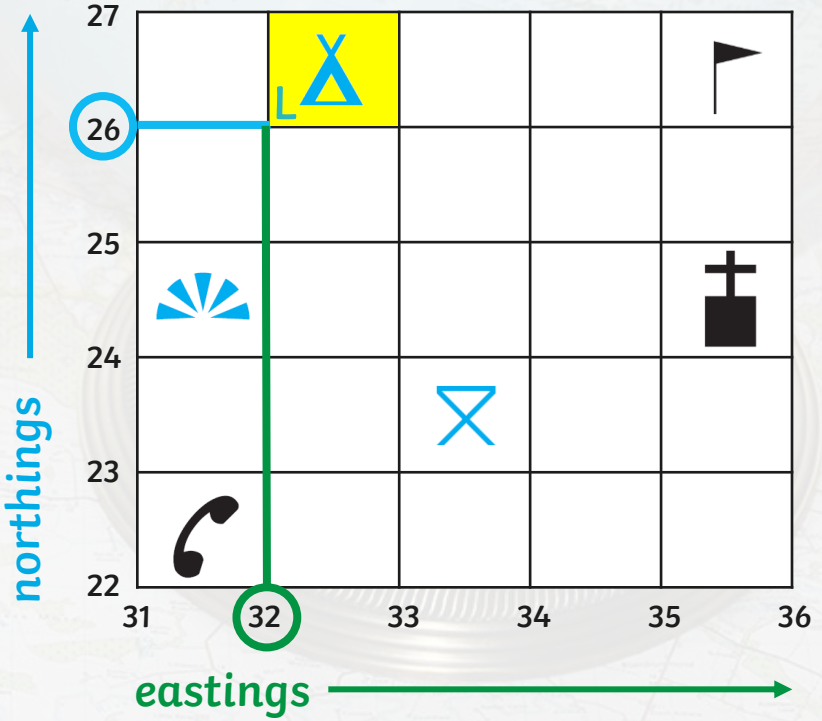
3226

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**

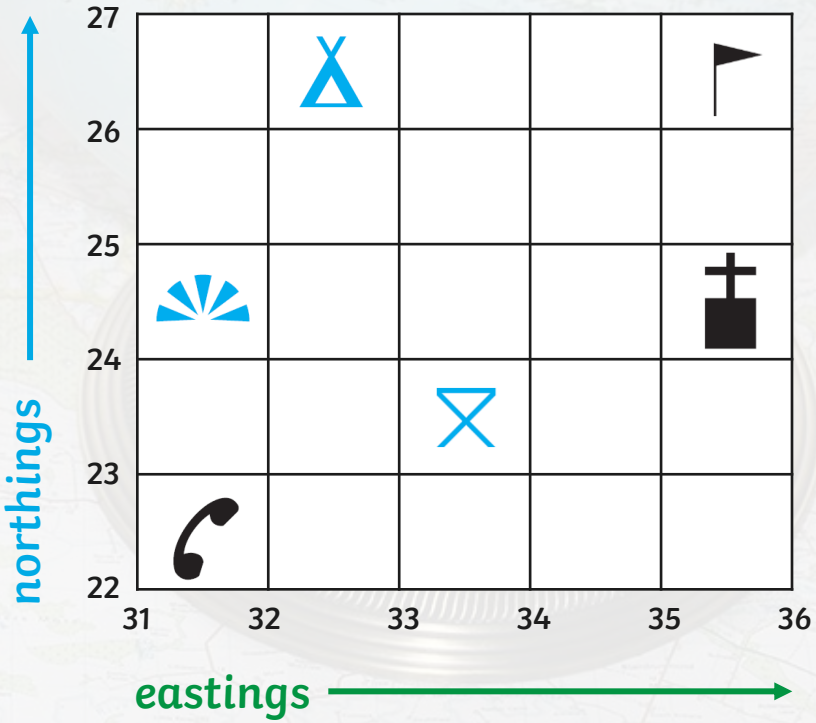
   b. 3124 **viewpoint**

   c. 3323 **picnic site**

2. What is the grid reference for the:

   a. church? **3524**

   b. telephone? **3122**



Treasure Island!

Complete the **Treasure Island Activity Sheet.**

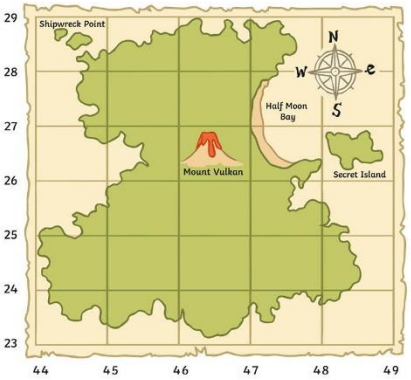
3. **At last.... the final clue to the treasure!**

   a) Which grid square is the treasure buri

Now it's time to start your quest
From the Secret Island, head tw
Follow Snake River down to the
Then one square west ... under a

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 452 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 _____

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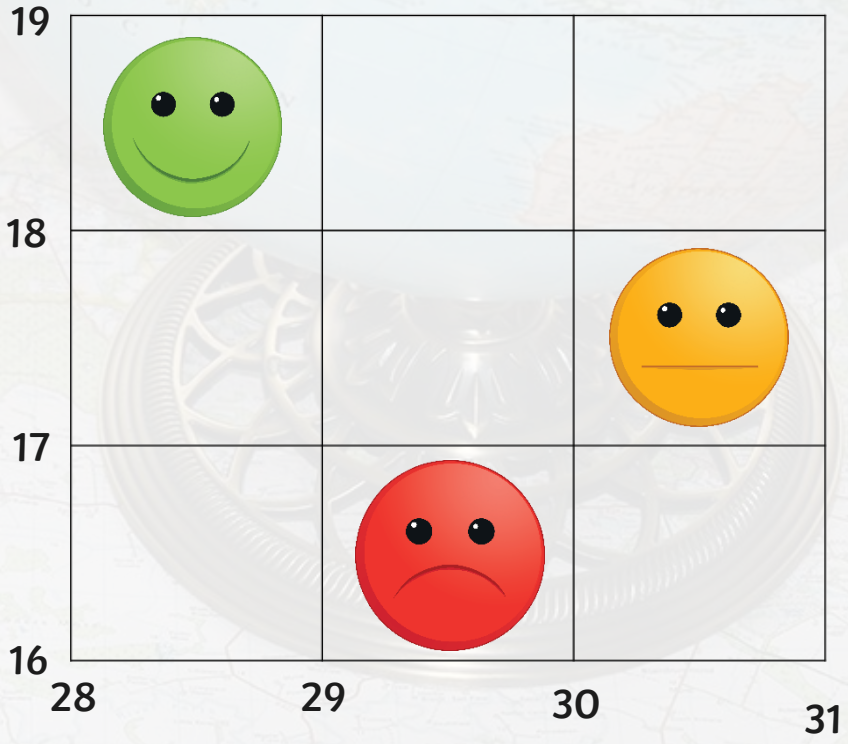
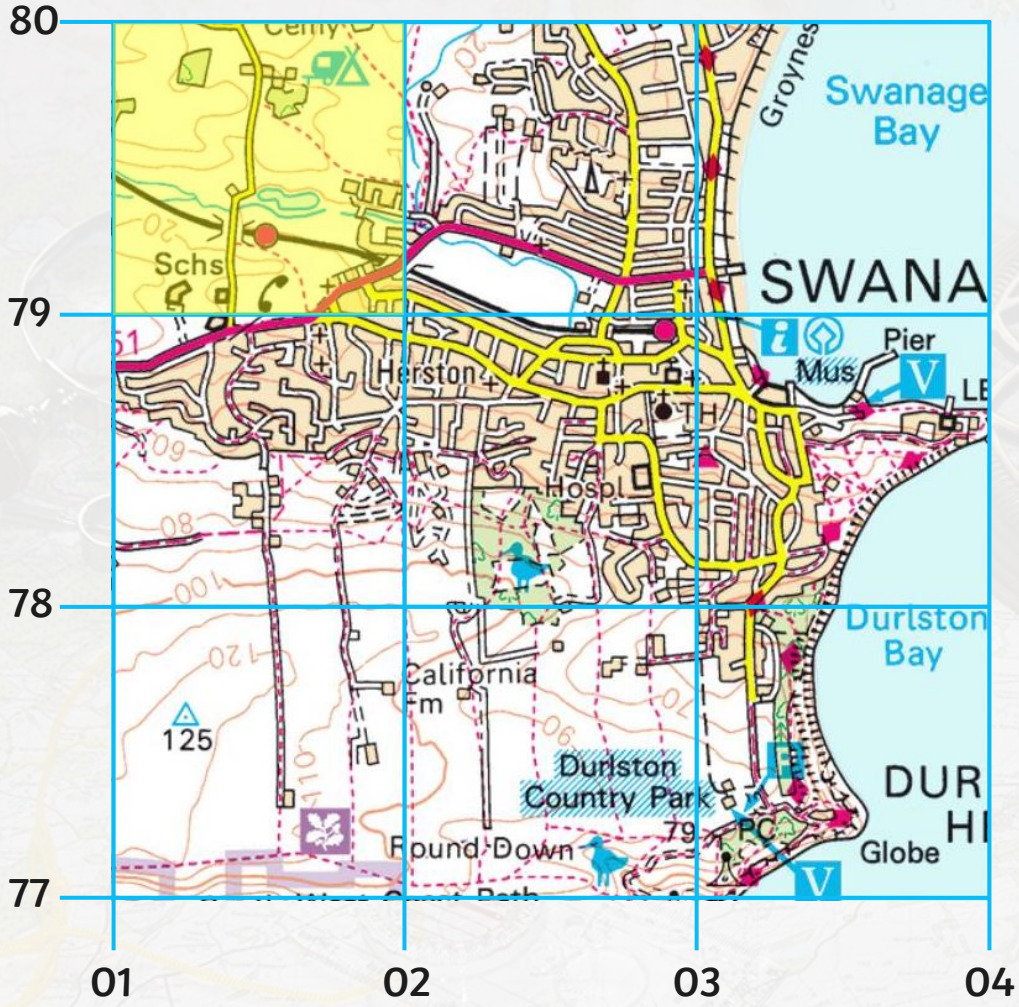
Feeling Maptastic?

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?

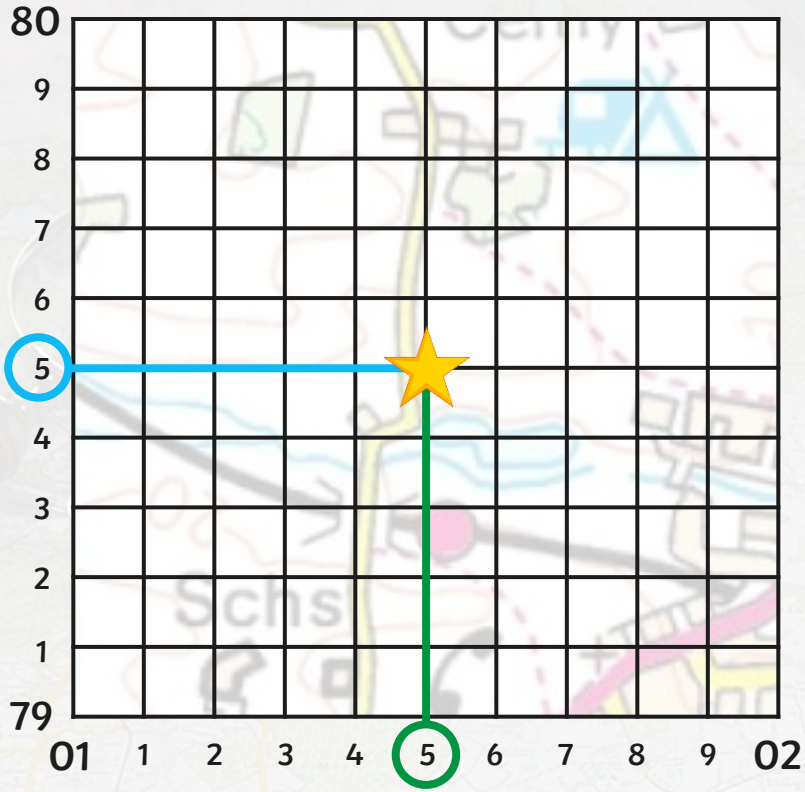


Four-figure grid references are used to find a grid square...

...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:

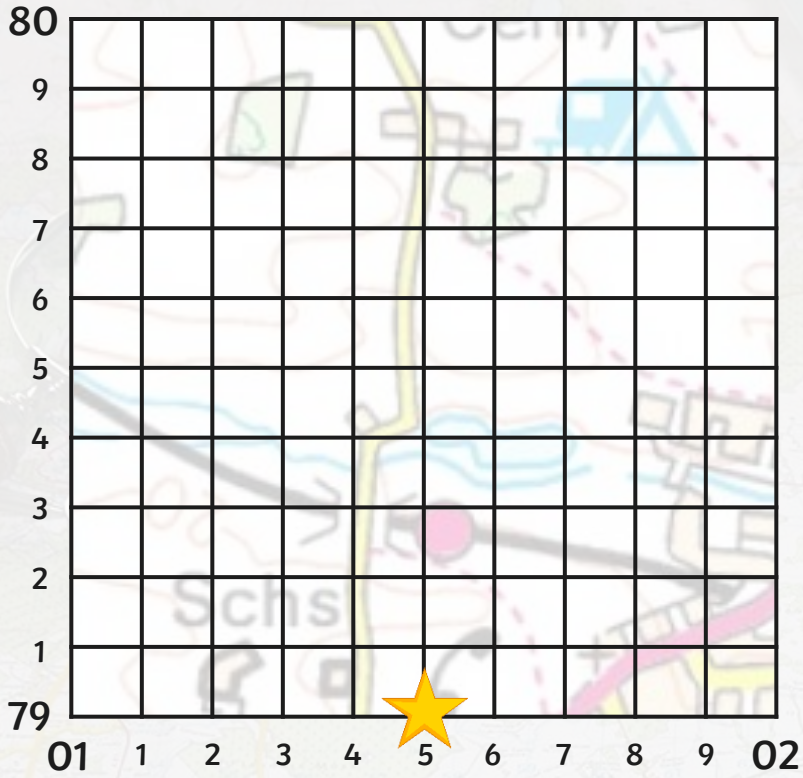
015795

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?



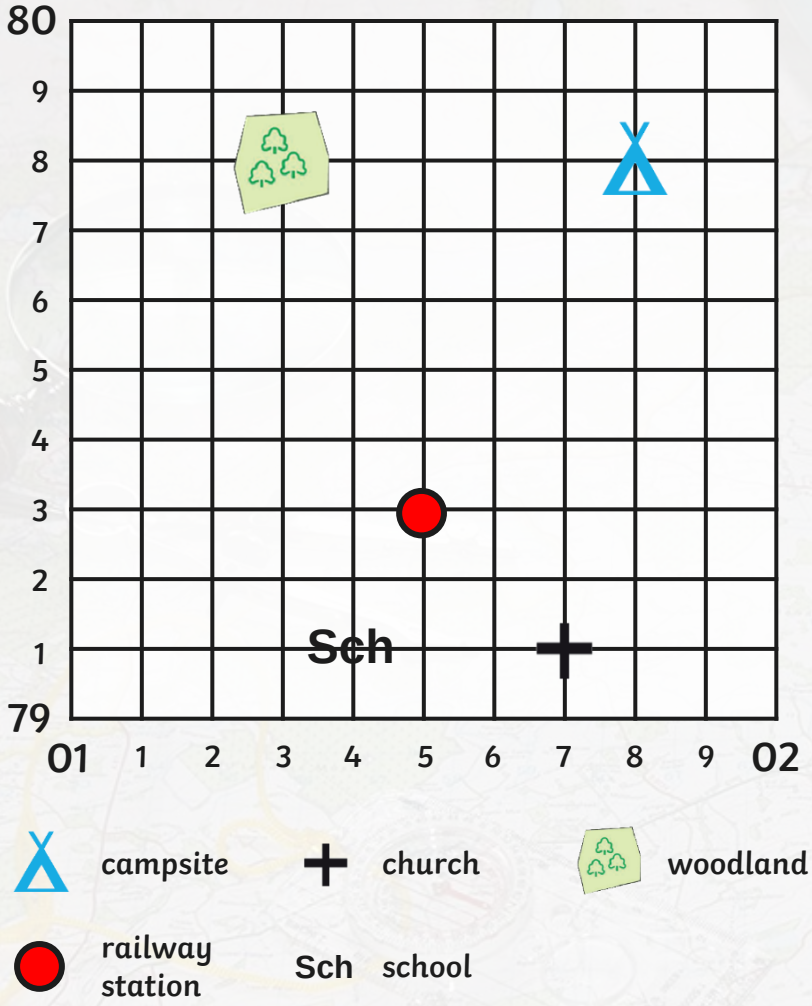
What is the six-figure grid reference of the star?

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?



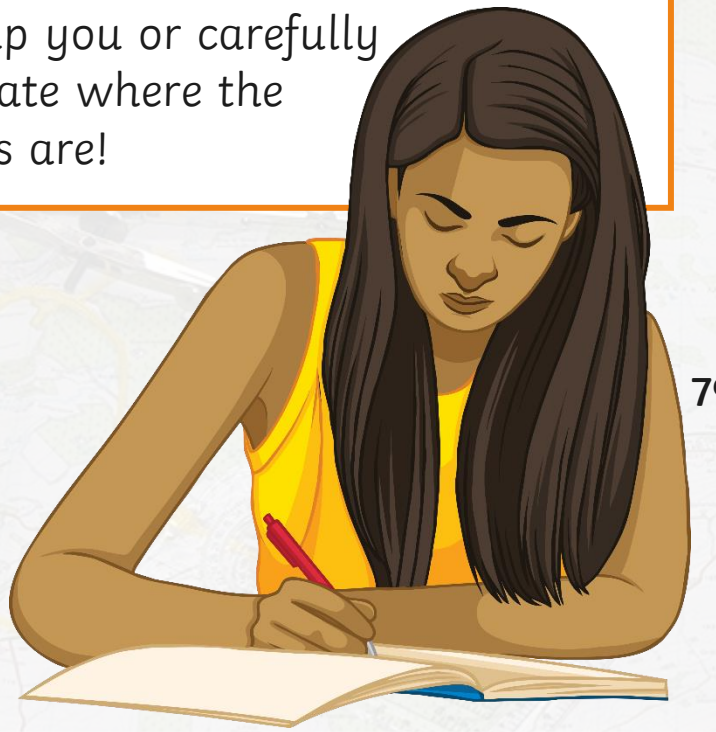
Your Turn!

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!



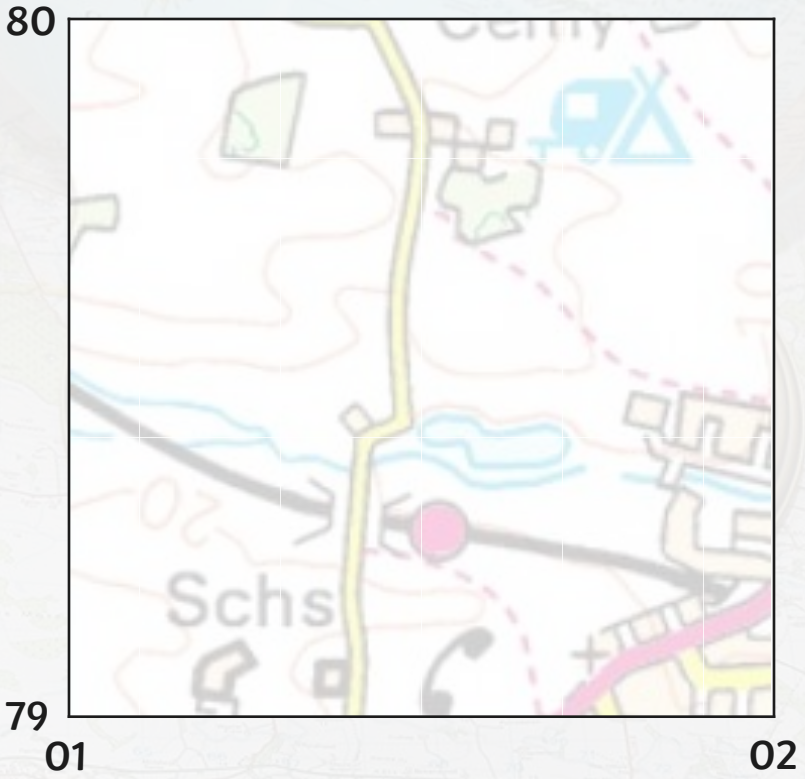


Figure It Out: Swanage

Complete the **Swanage Map Activity Sheet.**

Answer these questions using the map of Swa

1. Find Swanage Pier on the map. Which of th
   a) 0378
   b) 0377
   c) 0279
2. Find Durlston Country Park on the map. W
   a) 0377
   b) 0277
   c) 7703
3. What is the name of the bay is found in gri
   _____
4. What is located at six-figure grid reference
   a) a church
   b) a triangulation pillar
   c) a school
5. What is located at six-figure grid reference
   a) railway station
   b) a hospital
   c) a campsite

Extension

Name four features that can be found in gr

_____
_____
_____
_____

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Swanage Map **Four-Figure and Six-Figure Grid Refrences**

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
references to find an exact
much _____ accurate th

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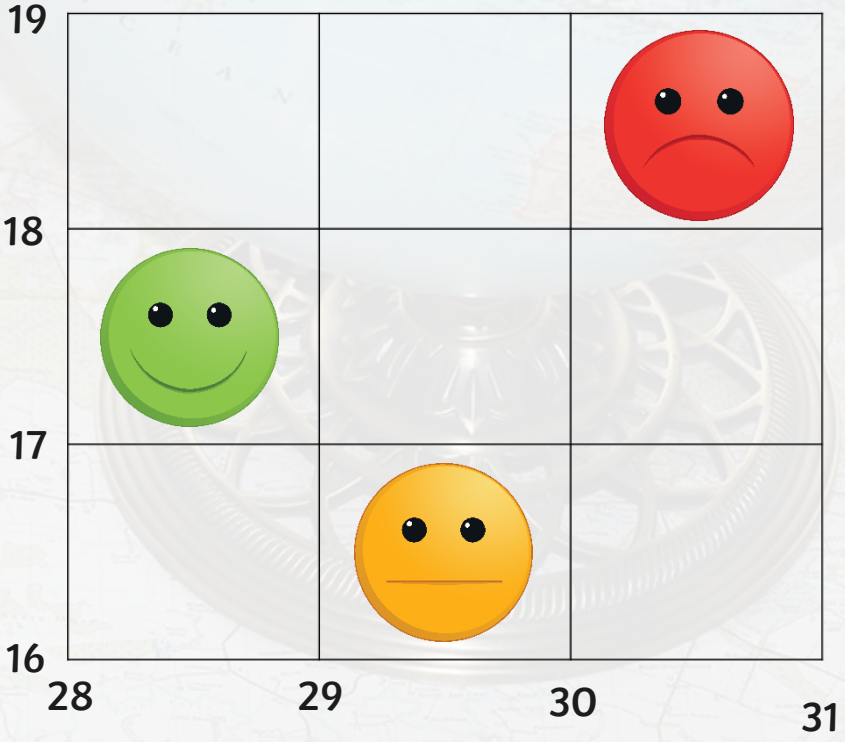


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