

Green- Convert between metres and kilometres and begin to solve problems with these

| Mountain | Height (m) | Height (km) |
|------------------|------------|-------------|
| Mont Blanc | | 4.809km |
| Mount Etna | 3350m | |
| Mount Elbrus | | 5.642km |
| Aiguille du Midi | 3842m | |
| Mount Teide | 3718m | |

Now order the mountains from tallest to smallest

Use your converted measurements to answer these questions:

What is the **total** height of Mount Etna and Aiguille du Midi?

Write your answer in kilometres.

Find the **difference** between the height of Mount Etna and Mount Elbrus.

Write your answer in metres.

Aminah almost managed to climb to the top of Mount Elbrus last year, but bad weather forced her to turn back when she had climbed 5340m. How many metres did she **have left** to climb?

Jeremy took part in a mountain climbing challenge. Over five years, he climbed Mont Blanc, Mount Elbrus and Mount Teide. What is the **total** height he climbed?

Write your answer in metres.

This year, Kate has climbed 150m **less than** the **total** height of Mount Teide and Mont Blanc. How far has she climbed this year?

Write your answer in metres.

Orange-Compare mixed measurements of metres and kilometres and then begin to solve word problems

| Mountain | Height (m or km) |
|------------------|------------------|
| Mont Blanc | 4809m |
| The Matterhorn | 4478m |
| Mount Etna | 3.35km |
| Grossglockner | 3.798km |
| Mount Elbrus | 5642m |
| Monte Rosa | 4.634km |
| Aiguille du Midi | 3.842km |
| Mount Teide | 3718m |

Write the name of a mountain in each space to make the statement correct. There are several correct ways of doing this.

| | | | | |
|----------------|---|------------|---|--|
| The Matterhorn | > | | > | |
| | < | Mont Blanc | > | |
| | > | | < | |
| | < | | < | |

| Mountain | Height (m) | Height (km) |
|------------------------------|------------|-------------|
| Mount Everest (Asia) | | 8.848km |
| Kilimanjaro (Africa) | 5895m | |
| Denali (North America) | 6068m | |
| Mount Elbrus (Europe) | | 5.642km |
| Aconcagua (South America) | 6960m | |
| Mount Kosciuszko (Australia) | 2228m | |
| Vinson Massif (Antarctica) | | 4.897km |

Which two mountains have a difference in height of 892m?

Beverly climbed 11 076m. Which two mountains did she climb?

What is the smallest number of continents I would need to visit to climb 15 000m?

On my around the world trip, I visited three continents and climbed 16 434m.
One of the continents I visited was Africa. Which other two continents did I visit?

Red- Find different ways to compare measurements and then begin to solve more complex word problems

| Mountain | Height (m or km) |
|------------------|------------------|
| Mont Blanc | 4809m |
| The Matterhorn | 4478m |
| Mount Etna | 3.35km |
| Grossglockner | 3.798km |
| Mount Elbrus | 5642m |
| Monte Rosa | 4.634km |
| Aiguille du Midi | 3.842km |
| Mount Teide | 3718m |

Write the name of a mountain in each space to make the statement correct. There are several correct ways of doing this. Can you find four different combinations for each statement? The first one has been done for you.

| | | | | |
|----------------------|---|-------------|---|-------------------------|
| <i>Mount Elbrus</i> | > | Mount Teide | < | <i>Monte Rosa</i> |
| <i>Grossglockner</i> | > | Mount Teide | < | <i>Mont Blanc</i> |
| <i>Mont Blanc</i> | > | Mount Teide | < | <i>The Matterhorn</i> |
| <i>Monte Rosa</i> | > | Mount Teide | < | <i>Aiguille du Midi</i> |

| | | | | |
|--------|---|-------|---|-------|
| Elbrus | > | _____ | < | _____ |
| Elbrus | > | _____ | < | _____ |
| Elbrus | > | _____ | < | _____ |
| Elbrus | > | _____ | < | _____ |

| | | | | |
|-------|---|-------|---|------------|
| _____ | < | _____ | > | Mount Etna |
| _____ | < | _____ | > | Mount Etna |
| _____ | < | _____ | > | Mount Etna |
| _____ | < | _____ | > | Mount Etna |

| | | | | |
|-------|---|-------|---|-------|
| _____ | < | _____ | > | _____ |
| _____ | < | _____ | > | _____ |
| _____ | < | _____ | > | _____ |
| _____ | < | _____ | > | _____ |

This table shows the heights of the tallest mountains on each continent in the world. Some of the measurements are missing.

| Mountain | Height (m) | Height (km) |
|------------------------------|------------------|---------------------|
| Mount Everest (Asia) | 8848m | 88.48 km |
| Kilimanjaro (Africa) | 5895m | |
| Denali (North America) | 668 m | 6.068km |
| Mount Elbrus (Europe) | | 5.642km |
| Aconcagua (South America) | 6960m | |
| Mount Kosciuszko (Australia) | 2228m | |
| Vinson Massif (Antarctica) | | 4.897km |

Kai has had a go at converting the heights of Denali and Mount Everest. Did he work them out correctly? Cross out and correct any mistakes he has made.

Convert between metres and kilometres to fill in the other missing measurements in the table.

Miriam climbed 27 510m during her charity mountain climbing challenge. Two of the mountains she climbed were Mount Kosciuszko and Vinson Massif. Which other three mountains did she climb?

What is the smallest number of continents I would need to visit to climb 20 000 metres?

The answer is 1318m. What could the question be?

Use the information in the table to help you write a question that has this answer.

Ashima and Meaghan were trying to decide whether to climb Mount Kilimanjaro or Vinson Massif. If they climbed Mount Kilimanjaro, they would be able to climb at a rate of 800m per day. However, if they climbed Vinson Massif, they would only be able to climb at a rate of 700m per day. Ashima thinks that they would reach the top of Mount Kilimanjaro first, but Meaghan thinks it would be faster to get to the top of Vinson Massif. How long would it take to reach the top of each mountain, and which one of them is right? (Each partial day spent mountain climbing counts as a full day.)
