

# ... OBTAINING RAW MATERIALS

## ÖTZI ON THE MOVE

The Iceman used copper and flint to make his weapons and tools. Both materials are hard and can be shaped.

In 2016 scientists determined the origin of the raw materials Ötzi used. The copper came from Tuscany and some of the flint from the Non Valley. The Schnall Valley is about one and a half hours from the Non Valley by car.

## TRAVEL OBSERVATION

Of course, Ötzi had to cover the distance on foot. How long did it take him to obtain a stone?  
To help you, here is a walking formula.

ÖTZI'S TRAVEL DETAILS:  
 ⇒ ASCENT 4788 M  
 ⇒ DESCENT 5484 M  
 ⇔ 74.8 KM

### Elevation Profile

There is a formula for calculating how long it takes to walk a certain distance. The following basic values apply:

In one hour you can climb 400 metres in elevation or descent 500 metres in elevation. In addition, you can cover a distance of 4 km in an hour. Calculate the time spent walking (= x).

$$A = \frac{\text{ASCENT IN METRES}}{400} + \frac{\text{DESCENT IN METRES}}{500} \quad A = \frac{\quad}{400} + \frac{\quad}{500} =$$

$$B = \frac{\text{KM}}{4} \quad B = \frac{\quad}{4} =$$

$$C = \frac{\text{SMALLER VALUE (A OR B)}}{2} \quad C = \frac{\quad}{2} =$$

$$X = C + \text{GREATER VALUE (A OR B)} \quad X =$$

