

Level: 5

Strand: Measurement

Substrand: Estimate

## Reasonable or not reasonable

How high is Mount Everest? 1 km 5 km 10km 20km 50km 1000km

How much does a dolphin weigh 10kg 50kg 100kg 200kg or more?

Sometimes you are told pieces of information and have to make decisions about it. The price of a car, the length of a journey or the weight of a gift. You have to determine if it is reasonable or not.

### *Are the following statements reasonable?*

- Everyone in Mandurah supports Peel Thunder.
- Is it reasonable to be paid 1cent a second?
- Is a normal door 3 metres high?
- Would a child's slide be at an angle of 60°?
- If the clearance under a bridge were 2m would a Ford Falcon pass safely underneath?
- Would a can of coke weigh 100 grams?

### *Are the following reasonable? If they are not write down a better estimate.*

- The distance from school to your house is 40 000 metres.
- The weight of a car is 1 tonne.
- Sydney is 10 000km away.
- The classroom would need 20 m<sup>2</sup> of carpet to cover it.
- Your desk is 1m high.
- An ice cream container would hold only 100ml of liquid.
- My house is on a block of land 910m<sup>2</sup>.

### *Make up 10 of your own statements, which are reasonable, and 10 that are not.*



## *Under Estimate or Over Estimate.*

Should you under or over estimate the following things? State why

The number of party guests.

The height of a doorway.

The time it will take to get to school.

The depth of water in a diving pool.

The amount of paint needed to cover a wall.

Why are estimates helpful?

When would you use estimates?

---

### **Reflection**

What did you do well in this activity?

What could have you improved?

What new things have you learnt?