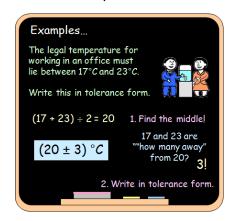
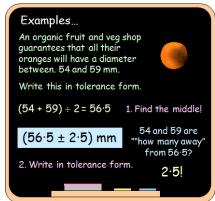
Outcome 2 - Tolerance Notation

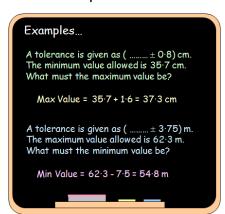
Bronze example



Silver example



Gold examples



Bronze Questions

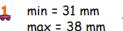
Write each of the following in tolerance form...

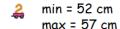
- ### min = 42 mm
 max = 48 mm
- amin = 11 cm max = 23 cm
- min = 72 m max = 82 m
- min = 33 km max = 39 km
- min = 51 kg max = 59 kg
- min = 2 litres
 max = 6 litres
- min = 402 ml max = 448 ml
- min = 11°C max = 51°C

Silver Questions



Write each of the following in tolerance form...





- # min = 19 km max = 20 km
- 5 min = 91 kg max = 92 kg
- smin = 1 litres max = 8 litres
- min = 307 ml max = 312 ml
- min = 21°C max = 28°C

Gold Questions

- A tolerance is given as (....... ± 1·4) m.
 The minimum value allowed is 52·7 m.
 What must the maximum value be?
- A tolerance is given as (....... ± 4.75) km. The minimum value allowed is 12.62 km. What must the maximum value be?
- A tolerance is given as (....... ± 0.4) secs.
 The maximum value allowed is 63.1 secs.
 What must the minimum value be?
- A tolerance is given as (....... ± 1.85) kg.
 The maximum value allowed is 40.62 kg.
 What must the minimum value be?

Bronze Answers

1. (45 ± 3) mm

3. (77 ± 5) m

5. (55 ± 4) kg 6. (4 ± 2) litres 7. (425 ± 23) ml 8. $(31\pm 20)^{\circ}C$

2. (17 ± 6) cm

4. (36 ± 3) km

Silver Answers

1. (34.5 ± 3.5) mm

3. (46.5 ± 2.5) m

5. (91·5 ± 0·5) kg

7. (309·5±2·5) ml 8. (24·5±3·5) °C

2. (54.5 ± 2.5) cm

4. (19.5 ± 0.5) km

6. (4·5 ± 3·5) litres

Gold Answers

Max Value = 55.5 m

2. Max Value = 22.12 km

3. Min Value = 62.3 secs 4. Min Value = 36.92 kg