



1) a)

Total mass = 16.5 tonnes			
Crate 3300kg	Crate 3300kg	Crate 3300kg	Fuel 6600kg

b)

Total Height of Mountain = 3.6km							
450m	450m	450m	450m	450m	450m	450m	450m

2) a) 9.17km

b) 6 buckets

3) 2.62m

1) The correct answer belongs to Jacob.

$$0.075l = 75ml$$

$$75ml \times 3 = 225ml$$

$$225ml + 1675ml = 1900ml$$

2) Bar model C best represents the problem as we know the total mass the jars is 0.9kg or 900g. The model shows that there is one pickle jar which has a mass of 250g and five jars of jam. We can work out that the jam jars have a total mass of $900g - 250g$ which is 650g. To find the mass of each jar, $650g \div 5 = 130g$. One jar has a mass of 130g.



1) 0.1l = Bottle D

0.9l = Bottle E

150ml = Bottle B

0.25l = Bottle A

775ml = Bottle C

2) a) Mass of one box: $2.35g \times 38 = 89.3g$

Mass of 30 boxes: 2.679kg

b) 5-6 kilograms: Least is 56 boxes and most is 67

1-2 kilograms: Least is 12 boxes and most is 22

