# Outcome 1 - Undoing a Percentage Increase/Decrease

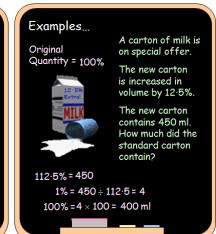
#### Bronze example

#### Original Examples... Quantity = 100% A box of cereal is on special offer. Special Offer 20% Extra Each box contains Free 20% more than the standard box. 600 How many grams does the standard box contain? 120% = 600 1% = 600 ÷ 120 = 5 $100\% = 5 \times 100 = 500 grams$

### Silver example

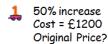


# Gold example



#### **Bronze Questions**

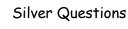
Calculate the following original amounts...



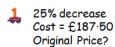


10% increase Cost = £9900 Original Price?



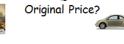


Calculate the following original amounts...





20% decrease Cost = £1500



20% increase Speed = 42 m.p.h. Original Speed?



5% increase Weight = 315 gOriginal Weight?



30% decrease Speed = 63 m.p.h.Original Speed?



5% decrease Weight = 1140 gOriginal Weight?



25% increase Length =  $30 \, \text{cm}$ Original Length?



55% increase Area = 1085 m² Original Area?



85% decrease Length = 3 cmOriginal Length?

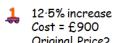


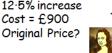
45% decrease Area = 880 m2 Original Area?



#### Gold Questions

Calculate the following original amounts...

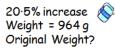




25.5% decrease Cost = £6705 Original Price?



12.5% increase Speed = 67.5 km/hr Original Speed?





37.5% increase Length = 2750 mm Original Length?



62.5% decrease Area = 225 m2 Original Area?



#### Bronze Answers

- 1. £800
- 2. £9000
- 3. 35 m.p.h.
- 4. 300 g
- 5. 24 cm
- 6. 700 m<sup>2</sup>

### Silver Answers

- 1. £250
- 2. £1875
- 90 m.p.h.
- 4. 1200 g
- 20 cm
- 6. 1600 m<sup>2</sup>

# Gold Answers

- 1. £800
- 2. £9000
- 60 km/hr.
- 4. 800 g
- 2000 mm
- 6. 600 m<sup>2</sup>