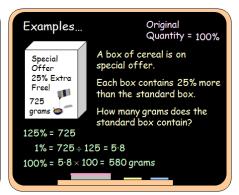
# Outcome 2 - Percentage Increase/Decrease

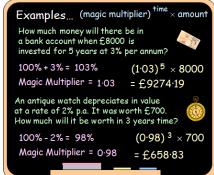
#### Bronze examples

#### \*\*Or use Examples... the magic multiplier!\*\* Increase £700 by 20%. 1. Calculate the % 1.2 × 700 = 840 700 ÷ 5 = 140 700 + 140 = £840 2. Add it onto the amount Decrease €300 by 32%. $0.68 \times 300 = 204$ 1. Calculate the % 300 ÷ 100 × 32 = 96 300 - 96 = €204 2. Take this away from the amount

#### Silver example



#### Gold examples



#### **Bronze Questions**

Work out the following percentage increases and decreases...

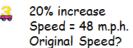
- Increase 180 grams by 25%
- Decrease €300 by 10%
- Decrease 500 centimetres by 40%
- Increase 770 litres by 30%
- Increase 400 kilograms by 37%
- Increase 60 millimetres by 72%
- Z Decrease \$900 by 23%
- 8 Decrease 10 metres by 17%

#### Silver Questions

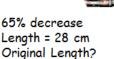


Cost = £2040 Original Price?







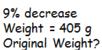


65% decrease Length = 28 cm



10% increase Cost = £6600 Original Price?







35% decrease  $Area = 910 \text{ m}^2$ Original Area?



## Gold Questions

Calculate the following after appreciation/ depreciation...

- 2% increase p.a. Amount = £9000 Amount after 3 years?
- 6% increase p.a. Value = £400 Value after 2 years?
- 7% increase p.a. Population = 14 000 Population after 5 years?
- 12% decrease p.a. Cost = £8000 Cost after 2 years?



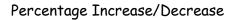


5% decrease per hour Temperature = 24°C Temperature after 3 hours?

20% decrease p.a. Value = £1800 Value after 5 years?







#### Bronze Answers

- 1. 225 grams 2. €270
- 3. £300 4. 1001 litres
- 5. 548 kilograms 6. 103·2 millimetres
- 7. \$693 8. 8.3 metres

### Silver Answers

- 1. £1200 2. £6000
- 3. 40 m.p.h. 4. 500 g
- 5. 80 cm 6. 1400 m<sup>2</sup>

### Gold Answers

- 1. £9550.87 2. £449.44
- 3. 19635 4. £6195·20
- 5. 20·58°C 6. £589·82