N5 - Applications — Worksheet 3 — Gold Level

Outcome 1 - Calculating an Original Quantity

Calculate the following original amounts...

1. 35·5% decrease
Cost = £580·50
Original Price?

2. 45·5% increase
Cost = £24 735
Original Price?

3. 25·5% increase
Speed = 50·2 m.p.h.
Original Speed?

4. 3·5% decrease
Weight = 193 g
Original Weight?

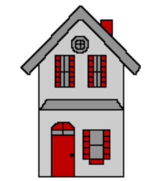
5. 65·5% increase
Length = 2648 cm
Original Length?

6. 55·5% decrease
Area = 178 m^2
Original Area?

Outcome 2 - Appreciation

Calculate the following after appreciation...

1. A house bought for £150 000. The value of the house appreciates at the rate of 16% for the first year and 4% in the second year. Calculate the value of the house after 2 years.



2. The roll of a high school was 700 pupils. This number is expected to rise at the rate of 30% for the first year and 1% in the second year. Calculate the roll of the high school after 2 years.

Outcome 3 - Depreciation

Calculate the following after depreciation...

1. A car is sold for £15 000. The value of the car depreciates at a rate of 10% for the first year and 7% in the second year. Calculate the value of the car after 2 years.

2. Sales of a best selling maths textbook were 2000 in one year.
Sales fell by 35% for the first year and 14% in the second year. Calculate the number of copies sold after 2 years..

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