

GCSE - Numeracy and Mathematics
Topic: VAT including original cost

Tier: Intermediate

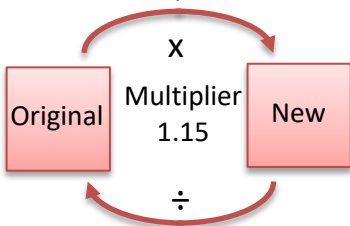
Grade: B

Starter
 Circle the correct multiplier

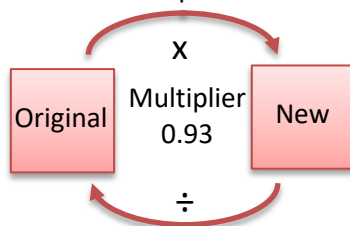
| | | | |
|------------------|------|--------|-------|
| Increase by 8% | 1.8 | 0.08 | 1.08 |
| Decrease by 11% | 1.11 | 0.89 | 0.91 |
| Increase by 2.5% | 1.25 | 1.02.5 | 1.025 |
| Decrease by 26% | 0.74 | 0.26 | 0.64 |

Top Tips!

Percentage **Increase**
example 15%



Percentage **Decrease**
example 7%




- Skills:**
- Increase £230 by 8%
 - Decrease £450 by 11%
 - The words below can all be used to mean an increase
Profit, Gain, Greater, Raise.
 Write 4 words that could be used to mean decrease

 - The price of a coat is £63 in a 10% sale. What was the original price.
 - Ellie receives a 3% pay raise. Her new wage is £16 068. What was her original wage?

Examination Question:

2013 January Link Applications U2 Higher Q9a

A garage in a European country has included VAT at 17 % in the car prices shown on the information tickets.



FireFly 2.6 litre
Sports Coupé

Price
34 990 euros including VAT

The government decides to change the rate of VAT to 24%. Calculate the price to be displayed on the information ticket for the car shown above following the change in VAT.
 Give your answer correct to the nearest ten euros. [4]

Assessment for Learning

Video / QR code

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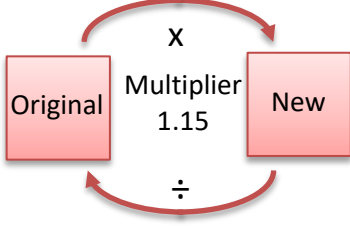
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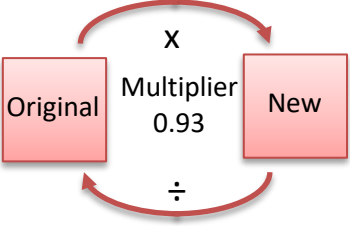
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Top Tips!

Percentage **Increase**
example 15%



Percentage **Decrease**
example 7%




Skills:

- Increase £230 by 8%
 $230 \times 1.08 = \text{£}248.40$
- Decrease £450 by 11%
 $450 \times 0.89 = \text{£}400.50$
- The words below can all be used to mean an increase
Profit, Gain, Greater, Raise.
 Write 4 words that could be used to mean decrease
Loss, Reduce, Reduction, Fall, Depreciate, Less, Sale, Discount
- The price of a coat is £63 in a 10% sale. What was the original price.
 $63 \div 0.90 = \text{£}70$
- Ellie receives a 3% pay raise. Her new wage is £16 068. What was her original wage?
 $16068 \div 1.03 = \text{£}15600$

Examination Question:

2013 January Link Applications U2 Higher Q9a

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FireFly 2.6 litre Sports Coupé

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Cost of car before 17% VAT
 $34\,990 \div 1.17 = \text{€}29,905.98$

Cost with VAT of 24% added
 $29905.98 \times 1.24 = \text{€}37,083.40$

To nearest €10 €37,080

Assessment for Learning

Video / QR code