

NUMBER: percentage increases

(Given an amount after a specific percentage increase, calculate the original amount)

Date: _____ **Name:** _____ <http://www.learnersgrid.com>

Solve the percentage increase problems below. Round answers to 2 d.p.

[1] After adding a 16% sales tax, the new price for a book is \$21.

Give the original price of the book (i.e. BEFORE adding the sales tax).

[2] After adding 26% postage & handling costs, the total cost of a pair of shoes from an online store is \$25.

Give the original price of the pair of shoes from the online store (i.e. BEFORE adding p&h costs).

[3] The price of a concert ticket goes up by 6% to a higher price of \$25.

Give the original price of the concert ticket (i.e. BEFORE the increase).

[4] The cost of hiring a crane goes up to a higher price of \$154 per hour.

This is a 14% increase in cost per hour.

Give the original cost per hour for hiring the crane (i.e. BEFORE adding the increase).

[5] The price of a car goes up by 12% to \$11426.

What was the price before?

[6] Calculate the original price of an article which costs \$236 after an increase of 83% .

[7] Calculate the original price of an article which costs \$318 after an increase of 96%

[8] Calculate the original price of an article which costs \$610 after an increase of 37%

[9] After an increase of 16% an item costs \$20.

What did this item cost before the increase?

ANSWERS

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Solve the percentage increase problems below. Round answers to 2 d.p.

- [1] After adding a 16% sales tax, the new price for a book is \$21.

Give the original price of the book (i.e. BEFORE adding the sales tax).

= \$ 18.10

- [2] After adding 26% postage & handling costs, the total cost of a pair of shoes from an online store is \$25.

Give the original price of the pair of shoes from the online store (i.e. BEFORE adding p&h costs).

= \$ 19.84

- [3] The price of a concert ticket goes up by 6% to a higher price of \$25.

Give the original price of the concert ticket (i.e. BEFORE the increase).

= \$ 23.58

- [4] The cost of hiring a crane goes up to a higher price of \$154 per hour.

This is a 14% increase in cost per hour.

Give the original cost per hour for hiring the crane (i.e. BEFORE adding the increase).

= \$ 135.09

- [5] The price of a car goes up by 12% to \$11426.

What was the price before?

= \$ 10201.79

- [6] Calculate the original price of an article which costs \$236 after an increase of 83%.

= \$ 128.96

- [7] Calculate the original price of an article which costs \$318 after an increase of 96%

= \$ 162.24

- [8] Calculate the original price of an article which costs \$610 after an increase of 37%

= \$ 445.26

[9] After an increase of 16% an item costs \$20.

What did this item cost before the increase?

= \$ 17.24