NUMBER: percentage changes

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

Date:Name:http://www.learnersgrid.comSolve the percentageincreaseproblems below. Round answers to 2 d.p.

- [1] After adding a 6% sales tax, the new price for a book is \$17.Give the original price of the book (i.e. BEFORE adding the sales tax).
- [2] After adding 27% postage & handling costs, the total cost of a jacket from an online store is \$25.Give the original price of the jacket from the online store (i.e. BEFORE adding p&h costs).
- [3] The price of a theatre ticket goes up by 6% to a higher price of \$35. Give the original price of the theatre ticket (i.e. BEFORE the increase).
- [4] The cost of hiring a digger goes up to a higher price of \$142 per hour.

This is a 12% increase in cost per hour. Give the original cost per hour for hiring the digger (i.e. BEFORE adding the increase).

Solve the percentage <u>decrease</u> problems below. Round answers to 2 d.p. [5] The price of a truck goes down by 12% to \$14838

What was the price before?

- [6] Calculate the original price of an article which costs \$281 after a decrease of 32%
- [7] Calculate the original price of an article which costs \$464 after a discount of 81%
- [8] Calculate the original price of an article which costs \$615 after a discount of 25%

[9] After a decrease of 14% an item costs \$22

What did this item cost before the drop in price?

ANSWERS

NUMBER: percentage changes

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

Date: Name:

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

[1] After adding a 6% sales tax, the new price for a book is \$17.

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

[2] After adding 27% postage & handling costs, the total cost of a jacket from an online store is \$25.

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

[3] The price of a theatre ticket goes up by 6% to a higher price of \$35.

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

= \$ 33.02

[4] The cost of hiring a digger goes up to a higher price of \$142 per hour.

This is a 12% increase in cost per hour.

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

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

[5] The price of a truck goes down by 12% to \$14838

What was the price before?

= \$ 16861.36

[6] Calculate the original price of an article which costs \$281 after a decrease of 32%

[7] Calculate the original price of an article which costs \$464 after a discount of 81%

[8] Calculate the original price of an article which costs \$615 after a discount of 25%

= \$ 820.00

, -----

= \$ 413.24

\$ 2442.11

lding the increase).

= \$ **126.79**

= \$ 16.04

\$ 19.69

[9] After a decrease of 14% an item costs \$22

What did this item cost before the drop in price?

= \$ 25.58