NUMBER: percentage changes

[9] After a decrease of 5% an item costs \$24

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

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Dat So/	e: Name: http://www.learnersgrid.com we the percentage <u>increase</u> problems below. Round answers to 2 d.p.
[1]	After adding a 13% 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 16% postage & handling costs, the total cost of a pair of shoes from an online store is \$15
(-)	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.
[5]	Give the original price of the concert ticket (i.e. BEFORE the increase).
	TI
[4]	The cost of hiring a digger goes up to a higher price of \$162 per hour. This is a 7% increase in cost per hour.
	Give the original cost per hour for hiring the digger (i.e. BEFORE adding the increase).
<i>Sol</i> [5]	ve the percentage <u>decrease</u> problems below. Round answers to 2 d.p. The price of a boat goes down by 20% to \$13702
	What was the price before?
[6]	Calculate the original price of an article which costs \$206 after a decrease of 10%
[7]	Calculate the original price of an article which costs \$438 after a discount of 91%
[8]	Calculate the original price of an article which costs \$249 after a discount of 36%

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:	http://www.learnersgrid.com

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

[1] After adding a 13% sales tax, the new price for a book is \$17.

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

= \$ 15.04

[2] After adding 16% postage & handling costs, the total cost of a pair of shoes from an online store is \$15.

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

= \$ 12.93

[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 digger goes up to a higher price of \$162 per hour.

This is a 7% increase in cost per hour.

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

= \$ 151.40

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

[5] The price of a boat goes down by 20% to \$13702

What was the price before?

= \$ 17127.50

[6] Calculate the original price of an article which costs \$206 after a decrease of 10%

= \$ 228.89

[7] Calculate the original price of an article which costs \$438 after a discount of 91%

= \$ 4866.67

[8] Calculate the original price of an article which costs \$249 after a discount of 36%

= \$ 389.06

What did this item cost before the drop in price?

= \$ 25.26