

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 17% sales tax, the new price for a restaurant breakfast is \$20.

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

[2] After adding 23% postage & handling costs, the total cost of a pair of shoes from an online store is \$18.

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 4% to a higher price of \$56.

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

[4] The cost of hiring a digger goes up to a higher price of \$134 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).

[5] The price of a car goes up by 12% to \$13771.

What was the price before?

[6] Calculate the original price of an article which costs \$244 after an increase of 12% .

[7] Calculate the original price of an article which costs \$583 after an increase of 98%

[8] Calculate the original price of an article which costs \$768 after an increase of 33%

[9] After an increase of 14% an item costs \$21.

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 17% sales tax, the new price for a restaurant breakfast is \$20.

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

$$= \$ 17.09$$

- [2] After adding 23% postage & handling costs, the total cost of a pair of shoes from an online store is \$18.

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

$$= \$ 14.63$$

- [3] The price of a concert ticket goes up by 4% to a higher price of \$56.

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

$$= \$ 53.85$$

- [4] The cost of hiring a digger goes up to a higher price of \$134 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).

$$= \$ 125.23$$

- [5] The price of a car goes up by 12% to \$13771.

What was the price before?

$$= \$ 12295.54$$

- [6] Calculate the original price of an article which costs \$244 after an increase of 12% .

$$= \$ 217.86$$

- [7] Calculate the original price of an article which costs \$583 after an increase of 98%

$$= \$ 294.44$$

- [8] Calculate the original price of an article which costs \$768 after an increase of 33%

$$= \$ 577.44$$

[9] After an increase of 14% an item costs \$21.

What did this item cost before the increase?

= \$ 18.42