

# NUMBER: percentage decreases

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

**Date:** \_\_\_\_\_ **Name:** \_\_\_\_\_ *http://www.learnersgrid.com*

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

[1] After a 9% discount, the new price for a restaurant breakfast is \$19.

Give the original price of the restaurant breakfast (i.e. BEFORE subtracting the discount).

[2] After subtracting 27% in gift coupon values, 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 taking away coupon values).

[3] The price of a concert ticket goes down by 4% to a lower price of \$31.

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

[4] The cost of hiring a crane goes down to a lower price of \$162 per hour.

This is a 17% decrease in cost per hour.

Give the original cost per hour for hiring the crane (i.e. BEFORE subtracting the decrease).

[5] The price of a truck goes down by 18% to \$9670.

What was the price before?

[6] Calculate the original price of an article which costs \$329 after a decrease of 86% .

[7] Calculate the original price of an article which costs \$318 after a discount of 95%

[8] Calculate the original price of an article which costs \$541 after a discount of 33%

**[9]** After a decrease of 12% an item costs \$16.

What did this item cost before the drop in price?

# ANSWERS

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

- [1] After a 9% discount, the new price for a restaurant breakfast is \$19.

Give the original price of the restaurant breakfast (i.e. BEFORE subtracting the discount).

$$= \$ 20.88$$

- [2] After subtracting 27% in gift coupon values, 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 taking away coupon values).

$$= \$ 24.66$$

- [3] The price of a concert ticket goes down by 4% to a lower price of \$31.

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

$$= \$ 32.29$$

- [4] The cost of hiring a crane goes down to a lower price of \$162 per hour.

This is a 17% decrease in cost per hour.

Give the original cost per hour for hiring the crane (i.e. BEFORE subtracting the decrease).

$$= \$ 195.18$$

- [5] The price of a truck goes down by 18% to \$9670.

What was the price before?

$$= \$ 11792.68$$

- [6] Calculate the original price of an article which costs \$329 after a decrease of 86% .

$$= \$ 2350.00$$

- [7] Calculate the original price of an article which costs \$318 after a discount of 95%

$$= \$ 6360.00$$

- [8] Calculate the original price of an article which costs \$541 after a discount of 33%

$$= \$ 807.46$$

**[9]** After a decrease of 12% an item costs \$16.

What did this item cost before the drop in price?

= \$ 18.18