

# 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 18% discount, the new price for a small gift is \$20.

Give the original price of the small gift (i.e. BEFORE subtracting the discount).

[2] After subtracting 17% in gift coupon values, the total cost of a pair of shoes from an online store is \$22.

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 theatre ticket goes down by 3% to a lower price of \$55.

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

[4] The cost of hiring a digger goes down to a lower price of \$151 per hour.

This is a 5% decrease in cost per hour.

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

[5] The price of a boat goes down by 20% to \$14496.

What was the price before?

[6] Calculate the original price of an article which costs \$425 after a decrease of 38% .

[7] Calculate the original price of an article which costs \$179 after a discount of 76%

[8] Calculate the original price of an article which costs \$365 after a discount of 40%

**[9]** After a decrease of 18% an item costs \$21.

What did this item cost before the drop in price?

# ANSWERS

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(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 18% discount, the new price for a small gift is \$20.

Give the original price of the small gift (i.e. BEFORE subtracting the discount).

$$= \$ 24.39$$

- [2] After subtracting 17% in gift coupon values, the total cost of a pair of shoes from an online store is \$22.

Give the original price of the pair of shoes from the online store (i.e. BEFORE taking away coupon values).

$$= \$ 26.51$$

- [3] The price of a theatre ticket goes down by 3% to a lower price of \$55.

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

$$= \$ 56.70$$

- [4] The cost of hiring a digger goes down to a lower price of \$151 per hour.

This is a 5% decrease in cost per hour.

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

$$= \$ 158.95$$

- [5] The price of a boat goes down by 20% to \$14496.

What was the price before?

$$= \$ 18120.00$$

- [6] Calculate the original price of an article which costs \$425 after a decrease of 38% .

$$= \$ 685.48$$

- [7] Calculate the original price of an article which costs \$179 after a discount of 76%

$$= \$ 745.83$$

- [8] Calculate the original price of an article which costs \$365 after a discount of 40%

$$= \$ 608.33$$

**[9]** After a decrease of 18% an item costs \$21.

What did this item cost before the drop in price?

= \$ 25.61