

# Fill in the Blanks

# Reverse Percentages

Question	Percentage Increase/Decrease	Multiplier	Calculation	Original Amount
After an increase of 10%, the price of a computer is £275. What was its original price?	10% <i>Increase</i>	1.1	$£275 \div 1.1$	£250
After an 8% pay rise, Omar earns £10.26 per hour. What was his hourly pay before the increase?	8% <i>Increase</i>	1.08	$£10.26 \div 1.08$	£9.50
A shirt is reduced by 20% to £20 in a sale. What was its original price?	20% <i>Decrease</i>	0.8	$£20 \div 0.8$	£25
The population of a village decreases by 16% to 1260. What was the population before the decrease?	16% <i>Decrease</i>	0.84	$1260 \div 0.84$	1500
A TV costs £258.42 including 18% tax. What was the price of the TV before the tax was added?	18% <i>Increase</i>	1.18	$£258.42 \div 1.18$	£219
A painting is sold for £729, making a profit of 35%. What was the original cost of the painting?	35% <i>Increase</i>	1.35	$£729 \div 1.35$	£540
In a sale, a coat is reduced by 33% to £43.55. What was its original price of the coat?	33% <i>Decrease</i>	0.67	$£43.55 \div 0.67$	£65
A puppy increases in weight by 7.5% to 3.87 kg. What was the previous weight of the puppy?	7.5% <i>Increase</i>	1.075	$3.87 \div 1.075$	3.6 kg
E.g. A mobile phone is sold for £92, making a profit of 15%. How much was it bought for?	15% <i>Increase</i>	1.15	$£92 \div 1.15$	£80
E.g. The number of ants in a colony decreases by 12% to 528. How many ants were there originally?	12% <i>Decrease</i>	0.88	$528 \div 0.88$	600