

Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Reverse Percentages

Calculator Allowed

INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You should have a ruler, compass and protractor where required.

Total Marks :

- 1) In a competition, Dewi threw the javelin 69.93 metres.
This was an improvement of 8% on his previous best throw.

Calculate the length of his previous best throw.

[3]

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2)

MASSIVE SALE

All items
reduced by
40%

The above sign was displayed in a jeweller's shop window. A bracelet was then on sale for £42. What was the price of the bracelet before the sale?

Answer £ _____ [3]

3) The financial press has just published the following headline.

PURKOZI Ltd.
Annual profit £4,760,000
Down 13% from last year

What was the profit made by this company last year?
Give your answer to the nearest ten thousand pounds.

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4) Jack sold his mountain bike for £168 at a loss of 16%. How much had he originally paid for the bike?

Answer £_____ [3]

- 5) A shop has reduced the price of a bicycle by 40% of its original price.

The sale price of the bicycle is £192.

Calculate the original price of the bicycle.

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[3]

- 6) A tea set has a sale price of £63.36 which is a saving of 12% on the original price.

What was the original price of the tea set?

Answer £ _____ [3]

- 7) A coat has a sale price of £54.40 which is a saving of 15% on the original price.

What was the original price of the coat?

Answer £ _____ [3]

- 8) (a) The price of fuel has increased by 20% each year.
The cost of fuel was £1.49 per litre on 1st January 2015.
If the price of fuel continues increasing at the same rate, what would you expect the cost of a litre of fuel to be on 1st January 2020?
Give your answer correct to the nearest penny. [4]

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- (b) After an increase of 24%, the cost of 1 tonne of coal is £451.36.
Calculate the cost of 1 tonne of coal before the increase in price. [3]

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- 9) Mr. Stratton's salary was increased by 6% to £47 700.
What was his salary before the increase?

Answer £ _____ [3]

10) Complete the table below.

Original amount	After a decrease of	
	40%	2%
£	£492	£

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[4]

11) Bethan sold her house for £137 750.
 She lost 5% of the price she had paid for the house.
 How much had she paid for her house?

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- 12) A shopkeeper calculates the selling price of a coat by increasing the manufacturer's price by 18%.
In a sale, the shopkeeper reduced the selling price of the coat by 15%. The sale price of the coat was £90.27.
Calculate the manufacturer's price for the coat.

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- 13) The bill for repairing a washing machine came to £151.68, inclusive of VAT at 20%.
What was the cost before VAT was added? [3]

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14)

Ben and Catrin both buy new fleece jackets.



The label inside Ben's jacket says:

Astra Jacket
90% Polyester, 10% Elastane
Soft fleece fabric 180g/m²

The label inside Catrin's jacket says:

Snug Jacket
80% Polyester, 20% Elastane
Stretchy fleece fabric 140g/m²

Ben and Catrin know the following facts about their jackets.

- Ben's jacket weighs 234 g.
- Catrin's jacket is made with 8% less fleece fabric than Ben's jacket.

(a) How much does Catrin's *Snug Jacket* weigh?
You must show your working.

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