

Name:.....

Total Marks:.....

GCSE (9-1) Grade 5

Reverse Percentages



Instructions

Use **black** ink or ball-point pen.

Fill in the boxes at the top of this page with your name.

Answer **all** questions.

Answer the questions in the spaces provided

– there may be more space than you need.

Show all your working out

Information

The marks for **each** question are shown in brackets.

use this as a guide as to how much time to spend on each question.

Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed

Advice

Read each question carefully before you start to answer it

Attempt every question

Check your answers if you have time at the end

1. In a sale, normal prices are reduced by 20%.



Andrew bought a saddle for his horse in the sale.
The sale price of the saddle was £220.

Calculate the normal price of the saddle.

£.....

(Total 3 marks)

2.



Jacob answered 80% of the questions in a test correctly.
He answered 32 of the questions correctly.

Work out the total number of questions in the test.

.....
(Total 3 marks)

3. In a sale, normal prices are reduced by 15%.
The sale price of a CD player is £102

Work out the normal price of the CD player.

£.....

(Total 3 marks)

4. A garage sells cars.
It offers a discount of 20% off the normal price for cash.

Dave pays £5200 cash for a car.

Calculate the normal price of the car.

£

(Total 3 marks)

5. In a sale, normal prices are reduced by 25%.
The sale price of a saw is £12.75

Calculate the normal price of the saw.

£

(Total 3 marks)

6. In a sale, normal prices are reduced by 12%.
The sale price of a DVD player is £242.

Work out the normal price of the DVD player.

£

(Total 3 marks)

7. The price of all rail season tickets to London increased by 4%.

(a) The price of a rail season ticket from Cambridge to London increased by £121.60

Work out the price before this increase.

£

(2)

(b) After the increase, the price of a rail season ticket from Brighton to London was £2828.80

Work out the price before this increase.

£

(3)

(Total 5 marks)

8. Loft insulation reduces annual heating costs by 20%.
After he insulated his loft, Curtley's annual heating cost was £520.

Work out Curtley's annual heating cost would have been, if he had not insulated his loft.

£
(Total 3 marks)

9. In a sale, normal prices are reduced by 14%.

The sale price of a digital camera is £129.86

(b) Work out the normal price of the digital camera.

£
(Total 3 marks)

- 10.** Hajra's weekly pay this year is £240
This is 20% more than her weekly pay last year.

Bill says 'This means Hajra's weekly pay last year was £192'.

Bill is wrong,

- (a) Explain why.

.....
.....

(1)

- (b) Work out Hajra's weekly pay last year.

£.....

(2)

(Total 3 marks)