

Reverse Percentages

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You **can** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

- 1 A bike was reduced by 20% in a sale. (Level 5)
If its sale price was £520, what was its original price?

[2 marks]

Answer: £ _____

- 2 A painter increases his charges by 6% to £21.20 per hour. (Level 5)
How much did he charge before the increase?

[2 marks]

Answer: £ _____

- 3 A dress is offered at £105 in a 30% sale. (Level 5)
How much does it normally cost?

[2 marks]

Answer _____

- 4 A business wants to increase its number of employees by 65% to 20,460. (Level 5)
How many employees does the company currently have?

[2 marks]

Answer _____

Turn over for next question

- 5 A sofa in a 25% off sale costs £330. (Level 5)
How much does it normally cost?

[2 marks]

Answer: £ _____

- 6 The price of a chocolate box has increased by 15% (Level 5)
The box of chocolates now costs £17.25.
How much did it cost originally?

[2 marks]

Answer: £ _____

- 7 The price of a local football clubs season ticket increased by 4%. (Level 5)
The new price of a season ticket is £98.80.
What was the price before this increase?

[2 marks]

Answer _____

Turn over for next question

- 8** An extra large lemonade contains 10% more than a normal bottle. *(Level 5)*
 The extra large bottle contains 660 ml, how much does the normal bottle contain?
[2 marks]

Answer _____

- 9** A multivitamin contains 16.2 mg of vitamin C. *(Level 5)*
 This is 24% of the recommended daily intake.
 What daily intake of vitamin C is recommended?
 Give your answer in milligrams.
[2 marks]

Answer: _____

- 10** A manufacture manufactures a car for a fixed cost. *(Level 5)*
 The car show room determines the selling price to be 55% above the manufacturing cost.
 The car show room currently has a sale, reducing all cars be 16%
 The sale price of the car is £12,369
 Calculate the manufacturing cost of the car.
[3 marks]

Answer: _____

End of questions