5.3 Reverse Percentages: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A jumper costs £30 after a 25% discount. Work out the jumper's price before the discount.

(Total for Question 1 is 1 mark)

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2 A number is increased by 10% to give 99. Work out the original number.

(Total for Question 2 is 2 marks)

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3 A number is decreased by 40% to give 54.
Which calculation gives the original number?

- ☐ A) 54 / 0.60
- ☐ B) 54 x 0.60
- ☐ C) 54 / 1.40
- ☐ D) 54 x 1.40

(Total for Question 3 is 1 mark)

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4 State the decimal multiplier equivalent to a decrease of 35%.

(Total for Question 4 is 1 mark)

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5 A number is increased by 20% to give 96. Find the original number.

(Total for Question 5 is 2 marks)

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6 In 2024, 68% of the students at a school passed a mathematics examination. This pass rate of 68% was 25% higher than the pass rate in 2023.
Work out the percentage of students who passed the mathematics examination in 2023.

(Total for Question 6 is 2 marks)

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Mark scheme · 5.3 Reverse Percentages: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

40 cao	**B1**

Answer: £40 cao

Question 2

multiplier 1.10 used, e.g. 99 / 1.10 oe	**M1**
90 cao	**A1**

Answer: 90

Question 3

A	**B1**

Answer: A (original number 90)

Question 4

0.65 oe	**B1**

Answer: 0.65

Question 5

correct multiplier 1.20 oe, or 96 / 1.2 seen	**M1**
80 cao	**A1**

Answer: 80

Question 6

68 / 1.25 oe	**M1**
54.4% cao	**A1**

Answer: 54.4%

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