Name: _____

ASM Tuition Academy

PERCENTAGE CHANGE

Instructions:

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

- Answer all questions.

- Answer the questions in the spaces provided

- there may be more space than you need.

- Diagrams are **NOT** accurately drawn, unless otherwise indicated.

- You must **show all you're 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.

Advice:

- Read each question carefully before you start to answer it.

- Keep an eye on time.

- Try to answer every question.

- Check your answers if you have time at the end.

Q1. Lina buys a house for £189,400.
She sells the house for £203,230.
Calculate the percentage profit Lina makes

(Total for question 1 is 3 marks)

Q2. Hannah buys a house for £368,500.
She sells the house for £341,200.
Calculate the percentage loss Hannah makes.

(Total for question 2 is 3 marks)

Q3. Ayesha's council tax bill last year was £1,940.
This year she has to pay £2,058.
Work out the percentage increase in her council tax bill.
Give your answer to 1 decimal place.

(Total for question 3 is 3 marks)

Q4. Sofia paid £412 for her car insurance last year.

This year she has to pay £378 for her car insurance.

Work out the percentage decrease in her car insurance.

Give your answer to 1 decimal place.

(Total for question 4 is 3 marks)

Q5. In 2005, the world population was 6.5 billion.
In 2020, the world population was 7.8 billion.
Work out the percentage increase in population.
Give your answer to 1 decimal place.

(Total for question 5 is 3 marks)

Q6. Peach Computers sold 21.5 million computers in 2016.
In 2017, they sold 19.8 million computers.
Work out the percentage decrease in the number of computers sold.
Give your answer to three significant figures.

(Total for question 6 is 3 marks)

Q7. Daniel paid £2,720 for his annual train ticket last year.
This year he has to pay £2,868 for his annual train ticket.
Work out the percentage increase in the cost of his train ticket.
Give your answer correct to 3 significant figures.

(Total for question 7 is 3 marks)

Q8. The average house price in Manchester in 2016 was £382,450.
The average house price in 2017 was £395,120.
Calculate the percentage change in house prices between 2016 and 2017.
Give your answer correct to 1 decimal place.

(Total for question 8 is 3 marks)

Q9. Alex buys a car for £15,200.
He sells the car for £11,400.
Work out Alex's percentage loss.
Give your answer correct to three significant figures.

(Total for question 9 is 3 marks)

Q10. Maya buys a pack of 60 cans of orange juice.
She pays £21 for the pack.
Maya sells 40 of the cans for 55p each.
She sells the remaining cans for 25p each.
Work out Maya's percentage profit.
Give your answer correct to three significant figures.

(Total for question 10 is 3 marks)

Q11. Nina buys a pack of 10 bottles of juice.
The pack costs £2.10.
Nina sells all 10 bottles for 30p each.
Work out Nina's percentage profit.

(Total for question 11 is 3 marks)

Q12. Liam buys 30 packs of cookies.
He pays £4.50 for the cookies.
Liam sells each pack of cookies for 40p.
Work out Liam's percentage profit.

(Total for question 12 is 3 marks)

Q13. Ethan buys a pack of 12 chocolate bars.
The pack costs £3.60.
Ethan sells all 12 chocolate bars for 50p each.
Work out Ethan's percentage profit.

(Total for question 13 is 3 marks)

Q14. James buys 1.5 kg of sweets.
He pays £3.00 for the sweets.
James puts the sweets into bags of 200g each.
He sells each bag of sweets for 40p.
Work out James's percentage profit.

(Total for question 14 is 4 marks)