Grade 9 Mathematics Term 1 Assignment 6

Name: _____(____)   Date: _____

Class: _____   Grade: _____

Content: Ch.4 Percentages (II)

1.   The base of a parallelogram is increased by 5%, while its height is decreased by 4%. Find the percentage change in the area of the parallelogram.

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2.   In a school, the numbers of boys and girls were in the ratio of 7:8 last year. This year, the number of boys increases by 8% and the number of girls decreases by 4%.
     (a)   The principal claims that the number of boys in the school this year is more than that of girls this year. Do you agree? Explain your answer.
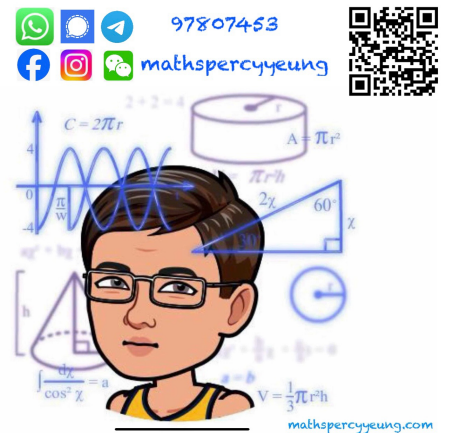   (b)   Find the percentage change in the total number of students.

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3.	Peter bought a mobile phone 3 years ago and its value depreciated at a constant rate of 3% per quarter. If the value of his mobile phone now is $5000, what was the value of the phone when Peter bought it? (Give your answer correct to 3 significant figures.)

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4.	The value of George's car depreciated at a constant rate of $r\%$ each year. Its values in 2017 and 2018 were $100 000 and $92 000 respectively.
	(a)	Find the value of r.
	(b)	George claims that the value of the car was less than $64 000 in 2022. Do you agree? Explain your answer.
	(Give your answers correct to the nearest integer if necessary.)

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END OF ASSIGNMENT