Name:	(Class:	

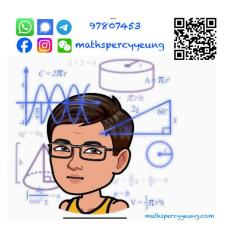
Ch4 Quiz 1

- 1. In a chemical reaction, the amount of substance *A* in a solution decreases at a constant rate of 15% per hour. If there is 50 mg of substance *A* in the solution now, find
 - (a) the amount of substance A in the solution 8 hours later,
 - **(b)** the decrease in the amount of substance A from now to 8 hours later.

(Give your answers correct to 1 decimal place.)

2. Originally, it takes 600 days to build a bridge. Due to the lack of labour, the number of days required to build the bridge has increased by 35%. Because of the bad weather conditions, the number of days to build the bridge is further increased by 10%. Can the bridge be built within 900 days? Explain your answer.

- 3. A puppy was bought in August. Its weight was decreased by 10% in September and was further decreased by 5% to 5.13 kg in October. Find
 - (a) the weight of the puppy in August,
 - **(b)** the overall percentage decrease in the puppy's weight from August to October.



4.		ase of a parallelogram i		by 5%, while its height is decreased by 4%. I	Find the
5.	year. Fin A. \$2 B. \$2 C. \$5	fit of a company increased the profit of the the company increased the profit of the profit of the company increased the profit of the p	npany two yo g. g.	% each year. The profit of the company is \$380 years ago.	000 this
6.	The rai find the A. 24 B. 54 C. 33	nfall was 3200 mm in 2	2014. If the part of the islands	an island decreased by 4% each year from 202 expercentage decrease in the rainfall remains wand from 2011 to 2015.	
7.	width o	of a rectangle increases	by 30% and B.	ginal width of a rectangle is 3:1. If the length and 40% respectively, its perimeter will increas 26%. +35%.	