Must Know Questions To Ace Approximation & Estimation

1.	Round off each of the following: a) 107.51 kg to the nearest kg b) $4639.23 to the nearest $10 c) 789.7 to the nearest 100 g d) $589.89 to the nearest dollar
2.	Round off each of the following to the correct decimal places as stated: a) 12.7009 to 2 decimal places b) 86.579 to the nearest whole number c) 3.47937 to 3 decimal places d) 45.0993 to 2 decimal places
3.	Round off each of the following to the correct significant figures (sig. fig.) as stated: a) 0.05636 to 3 sig. fig b) 468.43 to 1 sig. fig c) 37 902 to 2 sig. fig d) 9.0957 to 3 sig. fig
4.	A number corrected to 4 significant figures is 3 850 000. Write down a) The greatest possible value b) The smallest possible value
5.	Leonard went on a holiday to Thailand. He bought a bag for 290 Thai baht and a pair of sneakers for 435 Thai baht. Without the use of a calculator, estimate the total price of both items in Singapore dollars, given that the exchange rate was 1 baht = S$ 0.041 131.

Answer Key:

1. a) 108 kg
   b) $4600
   c) 800 g
   d) $590

2. a) 12.70
   b) 87
   c) 3.480
   d) 45.10

3. a) 0.0564
   b) 500
   c) 38 000
   d) 9.10

4. a) 3 850 499
   b) 3 849 500

5. $290 + 435 = 725$ baht
   1 baht = S$ 0.041 131
   100 baht = $4
   700 baht = $28
   25 baht = $1

   725 baht = $29