PROFIT AND LOSS

Cost price: The price that one pays for; when buying an object .Profit: It is the extra money earned out of selling an object for more than its cost price.

Selling price: the price at which an object is sold.

LOSS %=
$$\frac{LOSS}{COST\ PRICE}X\ 100$$

PROFIT
$$\% = \frac{PROFIT}{COST\ PRICE} X\ 100$$

SELLING PRICE=
$$\frac{100+GAIN\%}{100}XCOSTPRICE$$

SELLING PRICE=
$$\frac{100-LOSS\%}{100}XCOSTPRICE$$

$$COST \ PRICE = \frac{100 \ X \ SELLING \ PRICE}{100 - LOSS\%}$$

$$COST PRICE = \frac{100 X SELLING PRICE}{100 + PROFIT\%}$$

$$DISCOUNT\% = \frac{DISCOUNT \ X \ 100}{MARKET \ PRICE}$$

IGCSE PAST PAPER QUESTIONS:

1

A f	actor	y produces bird food made with sunflower seed	, millet and mai	ze.			
(a)	The	amounts of sunflower seed, millet and maize are in the ratio					
		sunflower seed: millet: maize = 5:3:1.					
	(i)	How much millet is there in 15 kg of bird food	?				
			Answer(a)(i)	kg [2			
	(ii)	In a small bag of bird food there is 60 g of sun	flower seed.				
		What is the mass of bird food in a small bag?					
			Answer(a)(ii)	g [2]			
(b)		if lower seeds cost \$204.50 for 30 kg from Jon's exchange rate is $$1 = €0.718$.	farm or €96.40	for 20 kg from Ann's farm.			
		ich farm has the cheapest price per kilogram? u must show clearly all your working.					
			Answer(b)	[4]			

(c)	Bags are filled with bird food at a rate of 420 grams per second.	
	How many 20 kg bags can be completely filled in 4 hours?	
	Answer(c)	[3]
(d)	Brian buys bags of bird food from the factory and sells them in his shop for \$15.30 each. He makes 12.5% profit on each bag.	
	How much does Brian pay for each bag of bird food?	
	Answer(d) \$	[3]
(e)	Brian orders 600 bags of bird food.	
	The probability that a bag is damaged is $\frac{1}{50}$.	
	How many bags would Brian expect to be damaged?	
	Answer(e)	[1]

MARKING SCHEME:

(a)	(i) 5	2	M1 for $\frac{3 \times 15}{(5+3+1)}$
	(ii) 108	2	M1 for $60 \times \frac{9}{5}$ oe
(b)	Correct conversion of money $J \times 0.718$ or $A \div 0.718$	M1	Correct conversion of money soi by 146.83[1] rounded or truncated to 3sf or 134.26[1] rounded or truncated to 3 sf if done 1 st
	Correct equalising of weights e.g. $J \times \frac{2[0]}{3[0]} \qquad \text{or } A \times \frac{3[0]}{2[0]}$ or $J \div 3$ and $A \div 2$ or $J \div 30$ and $A \div 20$	M1	Correct equalising of weights or money Accept other methods that give a pair of comparable values for method and accuracy marks This mark can be implied by values seen correct to 3 sf or better
	97 to 98 or 201[.39] and Ann 48.9[4] and 48.2[0] and Ann or 68[.16] to 68.[2] and 67[.13] and Ann 4.88 to 4.9 and 4.82 and Ann or 6.8[1] to 6.82 and 6.7[1] and Ann	A2	The underlined values imply M1 for the money conversion Or A1 for 97 to 98 or 201[.39] or a correct pair of values with wrong/no conclusion
(c)	302 Final answer	3	M1 for 60 × 60 × 4 soi by 14400 or figs 6048 or figs 3024 and M1 for ÷ (1000 × 20) soi Answer 302.4 implies M2
(d)	13.6[0]	3	M2 for $\frac{15.3[0]}{1.125}$ oe or M1 for 15.3[0] associated with 112.5%
(e)	12	1	

MORE PRACTICE QUESTIONS AVAILABLE IN THE TOPIC WISE PAST PAPER QUESTIONS.