Dear Parents / Students

Due to the unprecedented situation, Knowledgeplus Training center is mobilized and will keep accompanying and supporting our students through this difficult time. Our Staff will be continuously, sending notes and exercises on a weekly basis through what's app and email. Students are requested to copy the notes and do the exercises on their copybooks. The answers to the questions below will be made available on our website on knowledgeplus.mu/support.php. Please note that these are extra work and notes that we are providing our students and all classes will be replaced during the winter vacation. We thank you for your trust and are convinced that, together, we will overcome these troubled times.

Knowledgeplus Training Center

Mathematics

Garde 8

Week 6

Notes and Exercise

Note: (All the Notes, Examples and Exercise are on the photos and Note: (Please copy all the Notes, Examples and Exercises on your copy book).

/	Mathematics Grade 8 Week 6 Percentage Profit and loss
	Percentage Profit and loss
	2000, 25 = 22,000
¥ 1	he cost proce or buying price is the price at which an article is bought.
010	price at which an article is bought.
	1.7 al 2
T	he selling price is the price cet which on article is sold
- 0	un article is sold
	- Pe 10000 - Pe 1000
4	Then the selling price is greater than
	the cost price, we say that a profit is
	nade. 12 sorx 4700 - 12 9 motors
	Cert Prince
	Profit = Selling price - Cost price.
	555
	If the selling price is lower than the cost
	once, we say that a boss is made.
/	E the company
	Loss = Cost price - Selling price
	Property 100 - 100 3
	Enample 1
	The serry bought a phone at Rs 8000 and
	Told it cet Ps 10000.
(a) 1	Find the profit that Terry made.
611	Find the profit made as a percentage.
	of the cost price.
	Perinterior Peris . Peris singer
	71° 10 1-11

	Solution - Solution
	Buying proce - RS 8000
	Selling price = Ro 10000
21	Since the selling price is greater that
WAS	than the buying price Terry has made
	a profit.
	The sell ag pare or the expet or to where
	Terry's profit = selling price - Buging price
	-RS 60000 - RS 8000
40	= Rs 2000
-10	Method
-	Percentage Profit = Profit x100 %
	Cost Price
	= 2000 ×100% = 25%
	8000
	Method 2
	Rs 8000 100%
	Rs 1 -> coo 4
	Saco - Non Anni Anni
	Rs 2000 > 100 x 2000}
	5000
->	= 250/ man = 100 miles
	and it is the man.
	We can enjoiess the profit or loss in terms
12)	of percentage as follows;
	of the rail pairs
	Percentage Profit - Profit x 100%
	Cest prico
	· ·
	Percentage loss: loss x coo,
	Cost Proco

Attempt:Ex1(a-e), Ex2(a-e), Ex3(a-b).

- 1. In each of the following, find
 - (i) the profit,
 - (ii) the percentage profit.
 - (a) Cost price Rs4, Selling price Rs5
 - (b) Cost price Rs20, Selling price Rs22
 - (c) Cost price Rs40, Selling price Rs45
 - (d) Cost price Rs25, Selling price Rs30
 - (e) Cost price Rs60, Selling price Rs66
- 2. In each of the following, find
 - (i) the loss,
 - (ii) the percentage loss.
 - (a) Cost price Rs20, Selling price Rs18
 - (b) Cost price Rs6, Selling price Rs4
 - (c) Cost price Rs50, Selling price Rs48
 - (d) Cost price Rs12, Selling price Rs9
 - (e) Cost price Rs72, Selling price Rs63
- 3. A bookseller bought a book for Rs100 and sold it for Rs140.
 - (a) What was his profit?
 - (b) Express the profit as a percentage of the cost price.

	Calculation of selling price
Ename!	Bina bought a saire par Rs 12000, she
	Sold it at a profit of 154. Calculate
(8 S	the selling price of the sareo.
100	the selling price of the sareo.
	Solution
	Cost Prico = Rs 12000
	Profit = 15%
	Profit = 20 15 x 28 12000
	(00
	= Rs 1800 - 1
	selling price = Buying Price + toos
	- P8 42000 - PO 12000
	=Rs 12000 + Rs 1800
	= RS 13800
	-101
Enan	uple 2 00 00 - produce of the sales
	The same question by made a loss of 15%
	F 15 11 11 20 12 12 2
	Buying price = Rs 12000
	Loss = 159, 100 10 000 1000
	Loss = 15 ×12000
	100 Para Dila - Mar 2 DOS .
	=25/800
	Selling price = Buying Price & - Loss
	= Rs 12000 - Rs 1800
	= loave
	40

Attempt:Ex1(a-d), Ex2.

- 1. Calculate the selling price for each of the following:
 - (a) Buying price = Rs 350, profit = Rs 125.
 - (b) Buying price = Rs 1 300, loss = Rs 680.
 - (c) Buying price = Rs 7 200, percentage loss = 20%.
 - (d) Buying price = Rs 5 650, percentage profit = 15%.
- 2. Andrea bought a television set for Rs 22 800 and sold it at a loss of Rs 4 600. Find the selling price.

Attempt:Ex1(a-b), Ex2(a-b).

- 1. Tejasvi sold a dress at Rs 575, making a profit of Rs 125.
 - (a) What is the cost price of the dress?
 - (b) Find her percentage profit.
- 2. Akash bought 600 apples for Rs 2 240. On reaching home, he found out that 40 apples were rotten. He sold the remaining apples at Rs 5 each. Find:
 - (a) his profit or loss.
 - (b) his percentage profit or percentage loss.

Attempt:Ex6,7,8.

- 6. Wasim bought a car for Rs 200 000 and sold it for Rs 180 000. Find his percentage loss.
- 7. Nadia bought a dozen of pencils at Rs 150. She sold each pencil at Rs 18. Find her percentage profit.
- 8 Johnny buys 10 video games for Rs 4 500. If he sells them at a profit of 20%, find the selling price of one video game.

	· · · · · · · · · · · · · · · · · · ·
17	Calculation of Cost Price
17	Examples
	Milan sold a hag at Rs 650, making
	profit of 25%. What was the buying price
	of the bag?
	Sclution
	Book sire
	Buying Price - Loug
	Price - 2501
4	selling price = (1004, 1254) - 1254
	125% -> Ro 650
	1'1 -> Rs 650
	103 Bo + 0008 1 19-
	100% -> Ro 650 x 100% = Rs 526
	125
	- Buying price of buy = Rs 520
3	ris not in which of may - 1 some ring of
	Enumple 2
	The same question like Enamples by now
	maleing a loss of 15%.
	Soluhan
	Buying price = 100 %
	(08 = 15%)
	Selling price = 1004-154 = 85%
	85% Re 650
	14 , Rs 650
	88
	100% - R 650 × 100% = R Rs 764.71
	Contract of the contract of th
	. Buying price = Re 764.71
	0 0 1

Attempt:Ex1,2,3.

- 1. Pooja sold her jewellery box at Rs 1 360, thus making a profit of Rs 175. Find the buying price of the jewellery box.
- 2. In 2016, Dilshaad bought a car. In 2018, she sold it for Rs 450 000, thereby making a loss of 10 %. Find the buying price of the car.
- 3. Mr James bought 20 packets of stickers and sold them to pupils at school. He makes a profit of 10 % when he sells each packet at Rs 44. Find the amount of money he spent to buy the 20 packets of stickers.

2	Discount
1.7.	Discount
	Discount = Marked Price - Scale Price
	Percentage Discount - Discount x 100 %.
	Marked pico
	Calculation of discount and porcentage discount
	Enamples
	The marked price of a refrigarator is Ro 24000. In a sale, the price is reduced to Ro
	in a sale, the price is reduced to ke
	19 800.
	Find (a) the discount
	(b) the percentage discount
(01)	Solution
(0)	Marked price of refrigerator = Rs 24000 Sale price of refrigerator = Rs 18000 Discount - Marked price - Sale price
	Sale prilo of refrigorator = 18 18000
	Miscount - Maried price - Scale price
	-Rs 24000 - Rs 18000
	- Rs 6000 72 Mars 1000 1000 1000 1000 1000 1000 1000 10
(b)	Porcontage discount = Discount x 100%
	Harried price
	= Rs 6000 × 1004
	20 24000
7/	= 254
	<i>' U</i>

	Calculation of Sale price
	Enample
	During the Christmas sales, Pashmina
	It d offered a 104 discount on all
	its articles. If the actual price of
	an item was Rs 750, Calculate the
771	sale price of the item.
	Solution transfer transfer southment
	marked price = Rs 750
	methodi
.01	1 discovent = 104
0	Actual price - Rs 750
	Estura alot
Fi	Discount = 28 LO x 750
g	d punpicoi ma stratar al
	= Rs 75
	Sule price of article = (Re 750-Rs 75)
	= Rg 675
	Method 2.
	1/2 discount stoy of many of the
	Actual Price = 100 %
	scale price = (1009, -109)
	=90% 28 = 00140 29 =
	: Sele prico - 90 X & Rs 750
	100
	work for Recent worth moderno of all
	Herriad pain

Calculation of marked price

Example

During the sale for Divadi, all prices
in a shop were reduced by 20 9.

Chitra bought a churidar for Rs

1830. Find the marked price of Churider.

Solution

Y. discount = 20 4.

Sale price = (1004, -204) of marked price =

8 Sale price = 100 4. -204.

= 83,809.

804. > Rs 1830

14. > Rs 1830

50

1004, - Rs 1830

1004, - Rs 2287.50

Attempt:Ex1,2,3,4,5.

- 1. If the price of a book is Rs1 200, how much will you pay for the book if you get a discount of 10%?
- 2. After a discount of 20%, the price of an article is Rs 490. Calculate the marked price of the article.
- 3. Husna wants to buy a game priced at Rs 350 but she only has Rs 275. If she gets a discount of 15%, how much more money will she need to be able to purchase the game?
- 4. Hitesha has Rs 1 000. The price of a bracelet is Rs 600. Given Hitesha gets 25% discount, will she be able to buy two bracelets?
- 5 Peter gets 10% discount on all the articles shown below. How much will each of these pairs of slippers cost? Show all your workings.

