Brilliance Tuition Centre, Redbank Plains

MATHSWORKSHEETS – PERCENTAGES – PROBLEM SOLVING

Answer the following questions.

1	Find the simple interest on $500 for 3 years at a rate of 8.5% p.a.	
2	If 9% of a number is 162, find that number.	
3	Anna bought a pack of pencils for $5.00 and sold for $8.00. What is the percentage gain?	
4	There are 50 dogs in a kennel and 20% are sick. a) Calculate the number of sick dogs b) Calculate the number of healthy dogs.	
5	I bought a land for $400,000 and now its value has increased by 6%. Calculate the new value of the land.	
6	If 20% of a number is 38, find the number.	
7	Add 12% of $90 to 25% of $150	
8	Find 12% of 15 kg. Write the answer in gram.	
9	Increase $700 by 9% and then decrease the answer by 9%	
10	David bought a refrigerator for $5600, which is 25% of his total savings in his bank account. Find his savings in the bank before buying the refrigerator.	
11	Find the simple interest on $1200 for 2 years at a rate of $7\frac{1}{4}$% p.a.	
12	Out of 90 people in a street, only 10 have cats. What percentage of the people have cats?	
13	If 15% of a number is 60, find the number.	
14	Adam's weekly income is $1500. He pays 20% of his weekly income in tax. a) Find his total weekly tax b) How much did he get after deducting the tax?	
15	Ramu got 4.5% increase in salary and got $500 as his weekly pay. Calculate his weekly pay before the pay rise (old pay)?	

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Answer Key:

1 I= Pnr
I= 500*3*(8.5/100)
I= $127.5

2 (9/100)* x =162
x = 162 * (100/9)
x = 1800

3 Percentage Gain =
$\left(\frac{final-initial}{initial}\right)$ x 100
= $\frac{(8-5)}{5}$ x 100
= 60%

4 (20/100)*50 = 10
a) 10
b) 50-10= 40

5 = (6/100)* 400,000 = $24,000
$400,000 + $24,000= $424,000

6 =(20/100))* x = 38
x =38 * (100/20)
x =190

7 12% of $90 = (12/100)*90= $10.8
25% of $150 =(25/100)*150= $37.5
$10.8 + $37.5 = $48.3

8 = (12/100) * (15*1000)
= 1800 gram

9 (9/100)*700 =63
700 + 63 =763
(9/100)*763 =68.67
763-68.67= 694.33
$694.33

10 (25/100)* x = 5600
x = 5600 * (100/25)
= $22,400

11 I= Pnr
I= 1200*2*(7.25/100)
I= $174

12 = $\left(\frac{10}{90}\right)$ x 100
= $11\frac{1}{9}$%

13 (15/100)* x = 60
x = 60*(100/15)
x = 400

14 a) $300
b) $1200

15 Old pay = x
x + (4.5/100)* x = 500
Taking x out,
x (1 + 0.045)= 500
x =500/1.045
x = 478.47