ACBSE Coaching for Mathematics and Science

Class7 Chapter Simple interest Test paper-1

1. In how much time will a sum become double of itself at 12.5% per annum simple interest?

4	let 89=100 and Pr100. , R. 12.5
	7 = 33×100 0012 0019 =
	PXR - OVAT = H
	T = the K HOT XHOT? It = 10
	HO XIZES
14.5	35
	7 = 18 you . An .
_	

2. A sum of money become $\frac{8}{5}$ of itself in 5 years at a creation rate of simple interest. Find the rate per cent?

let the 88 P = or 1 A 3 8 A 7 T = 5 year
SI = A+P
= 8n - n.
\$ 1 -2
5 8n-sn 3 00 1
S TO A SECOND
= 370_ /= /
Same Same
R = SIX 100 = 3x X + 100
PXT SXXXS
THE THE VICU
R = 12 V MAR
TU LO

3. Karim deposit a sum of Rs. 9000 in a bank after 2 year he withdraw Rs 4000 and at the end of he received Rs.7640. Find the rate

3.	P = 9000 . 6 Allen 2 year = S7 = PXRXT
	1000 2 1000
	SI = 9000 X 2 X R
	/80
	S1 = 180 & -
	P=900-900 -500 , 7.5-2 = 3400
11	ST > PXRXT
1	S1 = 5000 x 8 x 3
	760
	St. + IsoR
	turn or ment
	. A = P + St
11	A = 150 R + 5000 + 180 R
0	7640 = 5000 + 300R
	7640-5000 = - 330R
	2640 = 330 R
	8 24 2440 = R
	340
	\$ 2000 27 1000
	8 = Rat. As.
	the state of the s

4. Divide Rs 3000 into two parts so that the simple interest on the first part for 4 years at 8% per annum is equal to the simple interest on the second part for 2 years at 9% per annum.

v.	lel. & P 7 x
4	SI > PXRXT
	100 3 - 4 - 12 - 12
	31 7 X X S XH
	fro sz
	S1 = 8%.
	25
	5rd book . St. PXRXI
	1/0

JSUNIL TUTORIAL

ACBSE Coaching for Mathematics and Science

	87 -> 1300 ->x 9 xx - 13000 - 17k9
	The has most
	33 . 2700-920
	30
	The state of the state of
	8n200-9n
	25 50
	4000 = 25(240-90)
- 1	100n = 1675000 22521
	10011 3 10113 001
	100 m + 725h
1	
140	6252 = 4675000 -
-	lnen
	DE = 15100 1080
	lnen
	Dr. = 175000 1080
	DL = 15000 1080

5. Divide Rs 6000 into two parts so that the simple interest on the first part for 9 months at 12% per annum is equal to the simple interest on the second part for $1\frac{1}{2}$ years at 10% per annum.

5. 484 POHY = X

2rd po	ut = Loop - ac
P	12 1 T 9 ment , 43 03
57.	PXRXT FEY Y
1	100
3.1	= 21 × 3 × 423
4 5	H KIVO
SI	= 924
	140
.2	= (\$000-20) x 48 x 3
	M40, 1/35
	20
	87 = (con - x.) x3
	20
2	ST 3 18000 - 324 17374
	20

	920 = 18000 - 320 7
	100 50
	92 rzd = 1800 - 32
	TAB
	92= 1800-32
	\$
	9 x = 90000 - 15x
	9n + 15n = 91100
	24x = 9800 4500 1500 3750
	24.44
17	United the second second
6.	n = 3750. An.
	and a supply of the

6. Divide 3600 into two parts such that if one part be lent at 9% per annum and other at 10% per annum .The total annual income is Rs 333.

2nd tant = (3600 - 22)
P = 30
ST = PXR XTE
100
31 = 30 x 9 x 4 = 10
100
81 = 92
100

b of Jug poilt = 35	
ST - PXRXT	ALL WILL IN THE
100	in .ii
S1 - (3600-x)	W010
81 = 3600 - 30	77.
10	- A
3600-20 + 0	100 = 333

JSUNIL TUTORIAL

ACBSE Coaching for Mathematics and Science

	36000 - 102 + 9x = 333
	Ivo
_	36000 - 2 - 393
_	36000-20 = 333×106 / 36=15
	36000 -x : 33306 24
	36000 = 33300 + xc
_	3000 - 33300 = X
	2700 = 2 Am
-	184 hout = 2400
-	2 nd Part = 3600 - 2400

7. Minakshi deposited a sum of Rs 8000 in a bank. After one year she withdraws Rs 2000. At the end of 3yrs. She received Rs 7800. Find the rate?

4.	P. 8000 , T. 148 . R
	St = PX RXT
2.	100
11	81 = 8000x R M1
1	The second of th
3.	St = 80 R
	27 - 7 - 18641 - 18
	4
	P = 8000-2000, T= type 3-4 = 24ear.
	- 49)
	8T = PXRXT = 6000XRX2
_	100 140
_	2 000 2
	+ 2 Ex + 7
_	A = P+81
	A + 6000 + 80 R + 120 R
	2800 9 2 6000 + 200 K
	7800 - 6000 = 200 R
	1800 = 200R
	1800/200 ° R
	9 = 8
	Heals, 9.1. but acrown. Ala.
	Flow, 47. You made. One

8. Had and Ajit borrowed Rs 8000 and Rs 6250 respectively at same rate of interest for 3 years. If Had paid an interest of Rs 735 more than Ajit . Find the rate?

8.	Pol Have = 8000 , T= 3 year , R.
	or - Prover
	81 - PX RXT
1900	
- 55	SI > 8000 X RX3
	S1 > 240R - 05
	in the year of the second
	P of Aft = 6250 1 7 = 3400 . R.
	SJ . PXRX1
	100
	[Date
	81 " 1959 × 8 ×3
	2150
	57 ° 9 3758.
	2
	20 20 20 25
=>	240 R - 375 R = 735
	1.2-2-31.8 - 12.
- (.480 R - 375 R = 435
1	
-	105R - 7315
	HAT THE COLUMN
	R * 135 X2
	185 24
	8 3 141.

9. A merchant borrowed Rs 25000 from two money tenders. For one loan he paid 12% per annum simple interest and for the other he paid 14% per annum. The total interest paid by him in one year was Rs 3260. How much did he borrow at each rate?

JSUNIL TUTORIAL

ACBSE Coaching for Mathematics and Science

9.	181 monulaidus x
	and tout (espan - M.)
	7. 1 year , R. 12-1-

ST > PXRXT
1100
SI · XXXXI
25-25
S1 = 3x
ST = 3x
SI · FXRXT
(np
57 = 25000- oc x1 x 447
HAQ. 20
Si = 175000 -12
so

6n + 145000 - 3n c 2260 50 -2. + 145000 = 3260 50 -2. + 145000 = 3260 x 50 -3. + 145000 = 168000	50 -2. + 14.5000 = 3260 50 -2. + 14.5000 = 3260 x.50	2.5	50	· 3260	2
50 -2x + 145000 = 3260 x 50 -2x + 145000 = 000281 + 15	50 -x + 145000 = 3260 x 50 -x + 145000 = 168000° 145000 = 168000 + 20	_6n :		c 22.60	S
- x + 145000 = 168000	- x + 145000 = 168000 145000 = 30	-2.		3266	
- >1 + 145000 = 168000°	- x + 145000 = 168000 145000 = 30	- M	+ 145000 = 5	3240 X SO	1 7
	145000 - 168000 = au		+ 135000 =	168000	2.01.00

Henre	14 boot . 7000 Ja.
	one - some - some but by
	= 18000 . Ac.
	100 April 100 Ap

10. Kanti borrowed some money from bank at 8% per annum simple interest and lent the entire Amount to Satish on the same day at 12% per annum after 3 years, He gained Rs 420. Find the sum.

For Kanti: Let Principle = P, R= 8% Time = 3yrs

$$SI = \frac{PRT}{100} = \frac{Px8x3}{100} = \frac{6P}{25}$$

For Satish: Let Principle = P , R= 12% Time = 3yrs Then, $SI = \frac{PRT}{100} = \frac{Px12x3}{100} = \frac{9P}{25}$

According to question Kanti gain Rs.420

$$\Rightarrow$$
 Gain = $\frac{9P}{25} - \frac{6P}{25} = 420 = > \frac{2p}{25} = 420$

$$\Rightarrow P = \frac{420x25}{2} = 5250$$

11. The interest on a sum of money at the end of 5 years is $\frac{3}{5}$ th of the sum. Find the rate of interest,

-JJ.	D=x, 9= 5 year, 55.32
	The state of the s
	R = 81 X100
	P X 1 2 12
	25
	R. = 370 ×100-20 4
	SXXX8
	155
	R = 12.4. Are.
	2 - 19 19 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1

12. A sum of money lent at sin-10e interest amount to Rs. 3224 in 2 year and Rs, 4160 in 5 year. Find the sum and the rate of interest.

12-	Amount box syear , 9160 Amount box 2 year = 3224
	SI fox 3 year - 4160 - 3224 > 936
	ST for 1 year . 936/3 . 312
	31 for 1 year . 936/3 . 312 SI for 24car = 312 x2 . 624
	Amount for 2 yx - SI for 2 year.
	Sum : 2650 Ana.
-	Rok : 2600 x 100 x 124 312 12
-	2600 XZ
-	the second of the
-	R = 12-1- P.O. Ans.
	The state of the s

ACBSE Coaching for Mathematics and Science

13. Simple interest on a certain sum for 3 years at 8% per annum is Rs. 96 more than the SI on the same sum for 9% per annum .Find the sum.

130	P, X . R. 87 7.348	4
	St , MX8x3 = 24n	
	. 100 100	
	per la	
-	Pan, Ragy. 19-340.	
1.2	S1: 7 (9x3 = 24m	2
	100 100	
	Ala/	1
	990 - 24m > 99	1
	100	
		_
	32 - 96	
	372 - 96	
	32 - 96	Ma.
	372 - 96	Na.

SI on x and z is the SI on y for same time and same rate. Find value of sum y [ans: $y = \sqrt{zx}$]

15, x, y, z are three sums of money such that y is

y on Stofn = AKRKI
100
> on st day = yxRCT
0 100
y = art . yrt
≥ 100 100
(Commence
4 \ / X-
2/9
42 = x13- Aq.

14. At what rate per cent per annum will a sum double itself in 10 yrs?

Let P = RS. 100 then

Amount = double = RS. 200,

T = 10yrs;

SI = A- P= 200 - 100 = RS. 100

$$R\% = \frac{SIx100}{PxT} = \frac{100x100}{10x100}$$
$$= 10\% \text{ p.a}$$