# JSUJIL TUTOR ACBSE Coaching for 9 (athematic and Science 

## Class 7 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?

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

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

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.


# JSUJIL THTOBAL ACBSE Coaching for 9 (athematic and Science 


$400 n=1675000-225 x$
$400 n+225 n$
$625 x=8675000$
$x=\frac{t^{4}+200}{25} 1080$
$x=1080$
Hones i th $^{4}$ past $=1080$

$$
\begin{aligned}
2^{\text {rd }} \text { bart } & =3000-1080 \\
& =2010 \\
& =2020 \cdot \text { th }
\end{aligned}
$$

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.


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 .
7. | $P^{\text {st }}$ Part $=x$ |
| ---: | :--- |
| $2^{\text {nd }}$ part $=(3600-x)$ |
| $P=x$ |
| $\quad 8 T=\frac{P \times R \times T}{100}$ |
| $\quad 81=\frac{x \times 9 \times 1}{100}$ |
| $\quad 8 T=\frac{9 x}{100}$ |

$\square$ of $2^{\text {nd }}$ tart $\sim x \quad 3600 \cdot x$

$$
S I=P \times R \times T
$$

$$
100
$$

SI $\frac{(3600-x) \times 19 \times 1}{10010}$
$S t=\frac{3600-x u}{10}$
$\frac{3600-x}{10}+\frac{9 x}{100}=333$

# JSUJIL TUTOR ACBSE Coaching for 9 (athematic and Science 

$\frac{36000-10 x+9 x}{100}=333$
$\frac{3600-x}{100}=333$
$36000-x=333 \times 165$
$36000-x=33300$
$36000=33300+x$
$36000-33300=x$
$2700=x$ AR
$y^{81}$ hart $=2700$
$2^{\text {nd }}$ Payt $=3600-2700$.
$=900$. Ans
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?


Hester, $9 \%$ per arum. AA
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?

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?

# JSIJIL TOTO: ACBSE Coaching for Mathematics and Science 


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 $=P, \mathrm{R}=8 \%$ Time $=3 \mathrm{yrs}$
$S I=\frac{P R T}{100}=\frac{P x 8 x 3}{100}=\frac{6 P}{25}$

For Salish: Let Principle $=P, \mathrm{R}=12 \%$ Time $=$ 3yrs Then, $S I=\frac{P R T}{100}=\frac{P \times 12 \times 3}{100}=\frac{9 P}{25}$

According to question Kanti gain Rs. 420
$\Rightarrow$ Gain $=\frac{9 P}{25}-\frac{6 P}{25}=420=>\frac{2 p}{25}=420$
$\Rightarrow P=\frac{420 \times 25}{2}=5250$
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,

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 for syear $=4160$ Amount box 2 year $=3224$


# JSUJIL TUTOR ACBSE Coaching for S(athematies 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.
14. $P, x, R, 8 \%=T, 3 y r$

Ala $=\frac{2 \pm x-24 n_{2}}{100}=99$
$\frac{3 x}{100}=96$
$x \times \frac{3_{4}^{32} \times 100}{3}$
$x=3200 . \operatorname{Ans}$.
15. At what rate per cent per annum will a sum double itself in 10 yrs ?

Let $P=R S .100$ then
Amount $=$ double $=$ RS.200,
$\mathrm{T}=10 \mathrm{yrs} ;$
$S I=A-P=200-100=R S .100$

$$
\begin{aligned}
\mathrm{R} \% & =\frac{S I \times 100}{P \times T}=\frac{100 \times 100}{10 \times 100} \\
& =10 \% \text { p.a }
\end{aligned}
$$

$15, x, y, z$ are three sums of money such that $y$ is SI on $x$ and $z$ is the SI on $y$ for same time and same rate. Find value of sum y [ans: $y=\sqrt{z x}$ ]


