Name: Chapter Based Worksheet

Chapter: Comparing Quantities using Proportion

Grade: SSC Grade VIII

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- 1. If the price of a commodity inclusive of taxes is ₹15300.00 and the rate of sales tax is 2.00%, the marked price =
 - (i) $\stackrel{?}{=}14800.00$ (ii) $\stackrel{?}{=}16200.00$ (iii) $\stackrel{?}{=}13300.00$ (iv) $\stackrel{?}{=}17500.00$ (v) $\stackrel{?}{=}15000.00$
- If principal is ₹7000.00, ROI is 7.00% p.a., no of year(s) is 2 and interest type is compound interest computed annually, then amount is
 - (i) ₹8015.30 (ii) ₹8014.30 (iii) ₹8016.30 (iv) ₹8013.30 (v) ₹8012.30
- If ROI is 5.00% p.a., no of year(s) is 3 and accumulated compound interest is ₹2049.13 computed annually, then principal is
 - (i) ₹13001.00 (ii) ₹12998.00 (iii) ₹13000.00 (iv) ₹12999.00 (v) ₹13002.00
- In a company, the number of engineers to managers is in the ratio 6 : 5 . After a year, when 5 engineers and 20 4. managers left, the ratio between engineers to managers is 83 : 66 . Find the number of engineers and managers at the beginning?
 - (i) 750 (ii) 770 (iii) 760 (iv) 780 (v) 790
- 5. If initial value is V, new value after r% increase is
 - (i) $\frac{100 + r}{100} \times V$ (ii) $\frac{100 + r}{r} \times V$ (iii) $\frac{100 r}{r} \times V$ (iv) $\frac{100 r}{100} \times V$
- 6. If principal is ₹13000.00, no of year(s) is 2 and accumulated compound interest computed half yearly is ₹1631.61, then amount is
 - (i) ₹14630.61 (ii) ₹14629.61 (iii) ₹14631.61 (iv) ₹14632.61 (v) ₹14633.61
- 7. If P = Principal, n = no of terms, R = rate of interest, formula for amount at compound interest is
 - (i) $P[1-\frac{R}{100}]^n$ (ii) $P[1+\frac{PR}{100}]^n$ (iii) $P[1+\frac{100}{P}]^n$ (iv) $P[1+\frac{100}{PR}]^n$ (v) $P[1+\frac{R}{100}]^n$
- 8. Find the ratio between 10 gm and 6 kg
 - (i) 1:597 (ii) 0:600 (iii) 1:603 (iv) 1:600
- 9. Find the ratio between 3 months and 4 years 8 months
 - (i) 2:56 (ii) 3:58 (iii) 3:54 (iv) 3:56
- 10. If principal is ₹16000.00, ROI is 2.00% p.a., no of year(s) is 2 and interest type is simple interest computed half yearly, then interest is
 - (i) ₹641.00 (ii) ₹639.00 (iii) ₹638.00 (iv) ₹640.00 (v) ₹642.00
- 11. If C.P = 2710.00 and S.P = 1070.00, then loss =
 - (i) ₹1480.00 (ii) ₹1770.00 (iii) ₹1640.00 (iv) ₹1720.00 (v) ₹1590.00
- 12. Divide 24288 in the ratio 33:36
 - (i) 11616, 12669 (ii) 11616, 12672 (iii) 11616, 12675 (iv) 11615, 12672 (v) 11617, 12672

13	If 'a' is short of	'b' by 9.00%, then 'b'	exceeds 'a' by
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If the price of a commodity decreases by r%, the increase in consumption so as not to decrease the expenditure is

(i)
$$\left[\frac{r}{100+r} \times 100\right]\%$$
 (ii) $\left[\frac{r}{100-r} \times 100\right]\%$ (iii) $\left[\frac{100+r}{r} \times 100\right]\%$ (iv) $\left[\frac{100-r}{r} \times 100\right]\%$

- 15. If 8.00% and 8.00% are two successive changes, then the overall change is
 - (i) 16.64% (ii) 17.64% (iii) 18.64% (iv) 15.64% (v) 14.64%
- 16. 60.00%=
 - (i) 8.6 (ii) 0.6 (iii) 7.6 (iv) 1.6 (v) 2.6
- 17. If S.P = ₹3620.00 and loss = ₹930.00, then loss % =
 - (i) 17.44% (ii) 23.44% (iii) 25.44% (iv) 15.44% (v) 20.44%
- 18. Find the ratio between 7 m and 6 km
 - (i) 7:5998 (ii) 7:6003 (iii) 7:6000 (iv) 6:6000
- 19. The cost of an article is ₹20.00. If it is increased by 6.00%, what is the new cost of the article?
 - (i) ₹23.20 (ii) ₹19.20 (iii) ₹20.20 (iv) ₹22.20 (v) ₹21.20
- 20. If S.P = ₹1040.00 and loss % = 53.98%, then loss =
 - (i) ₹1220.00 (ii) ₹950.00 (iii) ₹1070.00 (iv) ₹1450.00 (v) ₹1240.00
- The ages of A and B are in the ratio 6 : 5. 9 years hence, their ages will be in the ratio 7 : 6. Find their present ages.
 - (i) 42:35 (ii) 54:45 (iii) 48:40 (iv) 66:55
- 22. The ratio equivalent of the fraction $\frac{8}{5}$ =
 - (i) 8:2 (ii) 8:5 (iii) 7:5 (iv) 8:8 (v) 5:8
- 23. Calculate the amount on ₹19000.00 for 5 years 3 months at 6.00% p.a. compounded annually
 - (i) ₹25806.68 (ii) ₹25809.68 (iii) ₹25808.68 (iv) ₹25805.68 (v) ₹25807.68
- Mahesh, Raju and Martin started a business with investments of ₹18000.00, ₹16000.00 and ₹20000.00 respectively. After 5 months, Mahesh withdrew ₹7000.00 from his investment and 6 months later Raju added ₹6000.00 to his investment. At the same time Martin withdrew ₹3000.00 from his investment. If the profit at the end of the year is ₹1023400.00, find the share of each.
 - (i) Mahesh's share = \$283900.00, Raju's share = \$336600.00, Martin's share = \$402900.00
 - (ii) Mahesh's share = ₹281732.01, Raju's share = ₹339436.15, Martin's share = ₹402231.84
 - (iii) Mahesh's share = ₹285600.00, Raju's share = ₹334900.00, Martin's share = ₹402900.00
 - (iv) Mahesh's share = ₹280500.00, Raju's share = ₹340000.00, Martin's share = ₹402900.00
 - (v) Mahesh's share = ₹287300.00, Raju's share = ₹333200.00, Martin's share = ₹402900.00

- 25. If the radius of a circle is increased by 4.00%, its area will increase by
 - (i) 9.16% (ii) 8.16% (iii) 6.16% (iv) 10.16% (v) 7.16%

Assignment Key						
1) (v)	2) (ii)	3) (iii)	4) (ii)	5) (i)	6) (iii)	
7) (v)	8) (iv)	9) (iv)	10) (iv)	11) (iii)	12) (ii)	
13) (ii)	14) (ii)	15) (i)	16) (ii)	17) (v)	18) (iii)	
19) (v)	20) (i)	21) (ii)	22) (ii)	23) (v)	24) (i)	
25) (ii)						

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