AN ITHIM ALUMMI Companv

## PRACTICE SET OF QUANTITATIVE APTITUDE FOR SBI CLERK PRELIMS

## SOLUTIONS

36. (b); Let required people $=x$
$\therefore \frac{3500+x}{4500}=\frac{11}{9}$
$x=2000$
37. (c); Total No. $=25000$

No. of people from $Q$ and $U$ together $=8000$
$\therefore$ Required percentage $=\frac{8000}{25000} \times 100=32 \%$
38. (a); $18 \%$ of the total No. of people $=\frac{18}{100} \times 25000=4500$ Required cities $=P, S, U$
39. (d); Required $\%=\frac{4500-3500}{3500} \times 100$
$=\frac{1000}{3500} \times 100$
$=28.59$
$\approx 29 \%$
40. (e); Ratio $=4000: 5000=4: 5$
41. (d); $56+5.4-3=58.4$
42. (e); $8063-5580=2483$
43. (a); $(31)^{31-27}=(31)^{4}=(961)^{2}$
44. (a); 746.64
45. (c); $85.26-62.25=23.01$
46. (e); $\frac{996}{40}=24.9$
47. (a); 683.48-569.24

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=114.22
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48. (d); $\frac{(2 \times 999)(2 \times 588)}{999 \times 588}=2 \times 2=4$
49. (d); $\frac{\frac{1}{5}+99 \times 1000}{4}=24750$
50. (a); $\frac{(52-47)(52+47)}{99}=\frac{5 \times 99}{99}=5$
51. (c); $(30+5=35),(35+30=65),(65+35=100),(100+$ 65 = 165) $\qquad$
$\therefore 265+165=430$
52. (c); Prime No. series
53. (e); +1, $-2,+3,-4$
$\therefore 14+5=19$
54. (a); $5^{5}, 4^{4}, 3^{3}, 2^{2}, 1^{1}$
$\therefore 3^{3}=27$
55. (b); $2 \times 3=6,6 \times 3=18,18 \times 6=108$
$\therefore 108 \times 18=1944$.
56. (c); Let edge of square $=x$
$\therefore 144 x^{2}=400(x-2)^{2}$
$9 x^{2}=25\left(x^{2}+4-4 x\right)$
$9 x^{2}=25 x^{2}+100-100 x$
$16 x^{2}-100 x+100=0$
$\Rightarrow 4 x^{2}-25 x+25=0$
$4 x^{2}-20 x-5 x+25=0$
$4 x(x-5)-5(x-5)=0$
$x=5, \frac{5}{4}$
$\therefore$ edge $=5 \mathrm{~cm}$
$\therefore$ initially area $=144 \times 25=3600 \mathrm{~cm}^{2}$
57. (a); Required weight $=(49 \times 6+52 \times 6)-50 \times 11$
$=606-550$
$=56 \mathrm{~kg}$
58. (b); Let Boys $=x$

Girls $=y$
$\therefore 23.25=\frac{(30 x+20 y)}{x+y}$
$23.25 x+23.25 y=30 x+20 y$
$6.75 x=3.25 y$
$\frac{x}{y}=\frac{13}{27}$
59. (c); Cost Price $=1080 \times \frac{88}{100} \times \frac{100}{108}=880$
60. (b); Let fixed charges $=x$

Other charges $=y$
$\therefore x+10 y=6000$
$x+25 y=25 \times 360$
$x+25 y=9000$ $\qquad$
By solving equation (i) and (ii)
$15 y=3000 \Rightarrow y=200$
$\therefore x+2000=6000$
$x=4000$
Expense of 40 guests $=4000+40 \times 200$
$=4000+8000$
$=12000$
61. (c); Raju $=10$ days

Vicky = 12 days
Tinku = 15 days
Part of the work by all of them in 1 day $=\frac{6+5+4}{60}=\frac{1}{4}$
2 days work $=\frac{1}{2}$
Work Remaining $=1-\frac{1}{2}=\frac{1}{2}$
Let the work be completed in $x$ days
$\frac{x}{15}+\frac{x-3}{12}=\frac{1}{2} \Rightarrow \frac{4 x+5 x-15}{60}=\frac{1}{2}$
$\Rightarrow 9 x-15=30$
$\Rightarrow 9 x=45 \Rightarrow x=5$
$\therefore$ Total days $=5+2=7$ days
62. (c); $66=\frac{2200 \times t \times 2}{100}$
$t=\frac{3}{2}=1 \frac{1}{2}$
63. (a); Ratio of their investment $=54000: 90000$
= 3 : 5
B's profit $=3600-1800=1800$
A's profit $=\frac{1800}{5} \times 3=360 \times 3=1080$
$\therefore$ A's commission $=1800-1080=720$
$\therefore \%$ commission $=\frac{720}{3600} \times 100=20 \%$
64. (b); $\mathrm{CP}=\frac{100}{92} \times 1380$

Required price $=\frac{108}{100} \times \frac{100}{92} \times 1380=1620$
65. (a); Let no. of rows $=x$

NO. of chairs in each row $=3 x$
$\therefore 3 x^{2}=2187$
$x^{2}=729$
$x=27$
66. (e); Part of the property, widow get $=1-\left(\frac{5}{11}+\frac{30}{121}\right)$
$=1-\frac{85}{121}$
$=\frac{36}{121}$
$\frac{36}{121}$ of the part $=3600$
$\therefore$ Full property $=3600 \times \frac{121}{36}=12100$
$\therefore$ Share of elder son $=\frac{5}{11} \times 12100$
$=5 \times 1100$
$=5500$
Share of younger son $=\frac{30}{121} \times 12100=3000$
67. (c); Let initial investments be $5 x$ and $7 x$ Let B invested money for $y$ months
$\therefore \frac{5 x \times 7}{7 x \times y}=\frac{1}{2}$
$70=7 y$
$\therefore y=10$ months
68. (b) $; \frac{4}{5}=80 \%$
$(80-45)=35 \%$ of the no. $=56$
$65 \%$ of the no. $=\frac{56}{35} \times 65=104$
69. (a); Labour's Cost Price $=\frac{4}{9} \times 900=400$

Profit on Labour $=\frac{20}{100} \times 400=80$
$\therefore$ Marked price $=900+80=980$
70. (b); In 1 hour, Subhash can copy $=\frac{50}{10}=5$ pages

In 1 hour, both can copy $=\frac{300}{40}=7.5$ pages
$\therefore$ In 1 hour Prakash can copy $=7.5-5=2.5$ pages
$\therefore$ Required time $=\frac{30}{2.5}=12 \mathrm{hrs}$.


