

# Assignment

Course Title: Business Mathematics

Course Code: BUS 1201

Submitted To

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Submitted

Ans

(1)

60 people, 25%  
spanish-speaking

So, 25% of Go

$$\Rightarrow 60 \times 25\%$$

$$\rightarrow 60 \times$$

$$250$$

$$= 15 \\ 100$$

Ain.. 15 students are  
spanish-speaking

2 40% of 5,600 are  
Democrats

So,

$$15600 \times 40\% \quad 5600 \times$$

40

$$\Rightarrow 5600 \times 140 \Rightarrow 2240$$

100

2.240 Voters are Democrats

Ans

© 58% of 600 workers prefer diet soda

$$30, 600 \times 58\% -$$

$$600 \times .58$$

348

348 workers prefer diet soda.

@ we know,

$$P = BXR$$

$$1199.99 \times 8.5\% \quad 1199.99 \times 0.085$$

$$= 101.99915 \text{ (Sales tax)}$$

total cost = \$1199.99+

\$101.99915

5 we know,

$$= \$1301.99$$

$$P = BR$$

a)  $P = BR$

$$P = BR$$

$$949 \times 10\% \quad 949 \times 0.10$$

$= \$94.9$  · discount

Ans

→

$$P = BR$$

$$1850 \times 92\% \quad 1850 \times 92$$

$= 1702$  expenses

©  $P = BR$

Ans

$$100$$

$$18240 \ 000 \times 30\% - 18240 \ 000 \times \underline{30}$$

=> 347200 o

## Corporate income tax

Ans

6 40% of diners = 90

we know, for, B = L

B

96

96

=

R

40% 40/100

P = 90 R =

40%

(7

225

• 225 diners were interviewed in total

Dentists attending the convention,

P

Bo,

B = // =

R

2125

1700

415

P = 1700

R = 4/50

8) we know,

B = = =

560

80%

=

700 clients

560

P = 560

0.8

R = 80%

C we know,

R = 1 /

55

= 3

P = 55

220

$$B = 220$$

B

$$= 0.25 \times 100$$

$$= 25\%$$

$$\begin{array}{r} 873\ 900 \\ 0.97 \times 100 \end{array}$$

$$= 97\%$$

(0) we, know,

$$\begin{matrix} = \\ R = P \\ B \end{matrix}$$

$$P = 873$$

$$B = 900$$

Ans

11

we know,

$$\begin{matrix} R = \\ P \\ 6700 \\ B \\ 8375 \end{matrix}$$

$$P = 6700$$

$$= 0.8 \times 100$$

12

we  
know

B.P

R

$$B = \frac{B}{80\%} \\ Ans$$

$$41 \dots 04 \\ = 200$$

b)  $B = 135$

$$15\% \\ Ans \\ P \\ 8 \\ R = 4\%$$

$$135 \\ = \\ 15 \\ P = 135 \\ R = 15\% \\ = 900 \\ Ans$$

©  $B = 1.25$

$$1.25 \quad 1.25 \\ 25\% \\ 25 \\ P = 1.25 \\ R = 251$$

5

Ans

we know,

$$B = P$$

R

$$P = 780$$

$$780780$$

$$R = 5\%$$

51

0.05

$$-\$15\ 600$$

Ans

we know,

P

$$162.50$$

B

$$P=162.50$$

R

$$3251$$

$$R: 3.25\%$$

$$162.50$$

$$=95000$$

$$0.0325$$

(16)

(15) we know,

$$R = 26$$

$$104$$

R:

B

$$25$$

$$= 125 \times 100$$

$$P = 26$$

$$B = 109$$

$$25\%$$

"Ans"

b

$$R =$$

$$\begin{array}{c} 60 \\ \bullet 2 \times 1001 \\ 300 \end{array}$$

2.

Q

ક

$$\begin{array}{l} P = 60 \\ B = 300 \end{array}$$

20% Ans

$$R = 54 = 4.5$$

12

$$= 4.5 \times 100$$

we know,

450%

Ans

$$P = 59$$

B = 12

$$\begin{aligned}
 \underline{\text{£}} &= 96,000 \\
 \underline{\text{R}} &= \underline{\text{B}} = 3,000,000 \\
 \text{P} &= 96,000 \\
 \text{B} &= 3,000,000
 \end{aligned}$$

17

$$\begin{aligned}
 \underline{\text{H}} &= 0.032 \times 100 \\
 &= 3.2\% \\
 \text{Ans}
 \end{aligned}$$

# Distan Remaining distance

- 26.2-22

- 4.2 miles

$$\begin{aligned}
 \text{we, know, } \underline{\text{R}} &= \underline{\text{P}} = 4.2 \\
 \underline{\text{B}} &= 2612
 \end{aligned}$$

$$= 160 \times 100$$

166

... 16% left to run Ans

18)

New value

$$= 100\% + 10\% - 110\%$$

we, know. B = f = 203500

110%

2

\$185000

P = 20350 G

R = 110% = 110

160

P = 93.600

R = 100% + 20%.

120%

we know. B =

P

93.600

B

120

= 78000

then.

B

R

eld

78006

$$P=78000$$

120%

65000

Ans

20

$$\text{New value} = 100\% - 10\% = 90\%$$

we know,

P

135

B =

$$P=135$$

R

96%

$$R=90\%.$$

=\$150

Ans

21

Raise,

$$P = BR$$

$$2300 \times 1.57$$

=  
34.5

$$B=2308 R=21.5\%$$

"..new ·Salary = \$2300  
+\$34.5  
-\$2334.5

## (22) Salary to increase

$$\begin{aligned} \bullet P &= OR \\ &= 15.25 \times 9\% \end{aligned}$$

ANS

$$\begin{aligned} 15.25 \times 9/100 \\ = 1.3725 \\ \text{new per hour salary} &= 15.25 + \\ &1.3725 \\ &1662.25 \text{ cents} \end{aligned}$$

Bry

(0.4)

Discount Amount

$$\begin{aligned} P. BR \\ 49.99 \times 76\% \\ 8=49.99 \end{aligned}$$

$$4999 \times 70/10$$

0

R-201

34993

So Sales price - 49.99 -34.993

\$14.99 Ans

(4) Tax in amount

$$P=BR.$$

$$3400 \times 5\%$$

$$3400 \times 5/100$$

$$= 170$$

Pay = 3400

+170

To

25) Discount Amount

\$3570 Ans

P: BR

$$3600 \times 20\%$$

$$= 3600 \times 20/100$$

B=3400 R=5%

$$B = 3600$$
$$R = 20\%$$

720

Discounted price

$$= 3600 - 720$$

\$2880 Ans

(26) Increase.

$$1708 - 1525 = 183$$

we know, 'R=D

$$-183$$

$$P = 183$$

$$1525$$

$$B = 1525$$

$$+12 \times 160$$

$$121$$

Ans

(27) Increase

$$7.50 - 5.99 = 1.51$$

we know, R. B

$$\begin{aligned}
 & 1.51 \\
 & \textcolor{brown}{P=1.51} \\
 & 5.99 \\
 & \textcolor{brown}{B \div 5.99} \\
 & = 0.25 \times 100 \\
 & = 25.2\%
 \end{aligned}$$

Ans

Decrease .

$$\begin{array}{r} 97-00-10800 \\ 10800-9700 \\ \hline 1100 \end{array}$$

we know,

$$\begin{array}{r} R \\ P \\ 1100 \\ = 0.102 \times 100 \\ B \\ 10300 \\ P=1100 \\ B=10800 \\ 10.2\% \\ Ans \end{array}$$

29

## Credit card users

$$P = BR$$

$$\begin{array}{l} \text{захв} \\ 40 \times 80\% \end{array}$$

$$40 \times 80 / 100 = \$32 \text{ Ans}$$

$$B=440$$

$$R=80\%$$

30

Tax amount.

$$P = BR$$

всебу

$$= 30 \times 6 / 100$$

\$1.80

Ans

Amount praised,

$$P = BR$$

$$= 63760\%$$

$$= 63 \times 60 / 100$$

<437.8 million

$$B=330$$

$$R= 6X$$

$$B=463 R=$$

$$60\%.$$

32

we know

$$\begin{array}{r} P \\ 27 \\ \hline B = \\ \quad P = 27 \\ R \\ 51 \\ \hline 27 \\ -540 \\ \hline 5/100 \\ = \$540 \end{array}$$

(34)

we know

$$\begin{array}{r} R = P \\ \hline 37 \\ B \\ 50 \\ \hline P = 37 \end{array}$$

$$B=50$$

$$= 0.74 \times 100$$

74%. Ans

Increase amount

New 'Rent

$$P=B R$$

$$= 940 \times 8\%$$

=

$$940 \times 8/10$$

0

$$=\$75.2$$

$$= 940 + 75.2$$

$$= \$1015.2 \text{ Ans}$$

B = \$940 R=  
8%

we know,

$$R = P$$

B

b

17

$$P = 17$$

26

$$B = 26$$

$$= 0.6538 \times 100$$

$$= 65\%$$

Ans