

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 60

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

$$\rightarrow 60 \times$$

$$250$$

$$= 15$$

$$100$$

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 sode

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

$$600 \times .58$$

348

348 workers parcefer diet soda.

@ we know,

$$P = BXR$$

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

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

$$\text{total cost} = \$1199.99 +$$

$$\$101.99915$$

5 we know,

$$= \$1301.99$$

x

$$P = BR$$

$$a) P = BR$$

$$P = BR$$

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

$$= \$94.9 \cdot \text{discount}$$

Ans

→

$$P = BR$$

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

$$= 1702 \text{ expenses}$$

$$© P = BR$$

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

$$B = -220$$

$$B$$

$$= 0.25 \times 100$$

$$= 25\%$$

$$\frac{873}{900} \times 100$$

$$= 97\%$$

(0) we, know,

$$R = \frac{P}{B}$$

$$P = 873$$

$$B = 900$$

Ans

11

we know,

$$R = \frac{P}{B}$$

$$6700$$

$$B$$

$$8375$$

$$P = 6700 - 8375$$

$$= -1675$$

12

we

know

$$B.P$$

$$R$$

$$B =$$

B

80%

Ans

$$41 \cdot .04$$

$$= 200$$

$$b) \quad B = 135$$

15%

Ans

P

8

$$R = 4\%$$

$$135$$

=

$$15$$

$$P = 135$$

$$R = 15\%$$

$$= 900$$

Ans

$$c) \quad B = 1.25$$

$$1.25 \cdot 1.25$$

$$P = 1.25$$

25%

$$25$$

$$R = 251$$

5

Ans

we know,

$$B = \frac{P}{R}$$

$$P = 780$$

$$780 \times 780$$

$$R = 5\%$$

$$51$$

$$0.05$$

$$-\$15\,600$$

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

$$R =$$

60

$$\bullet 2 \times 1001$$

300

2.

Q

Q

$$P \div 60$$

$$B = 300$$

20% Ans

$$R = \frac{54}{12} = 4.5$$

$$= 4.5 \times 100$$

we know,

450%

Ans

$$P = 59$$

$$B = 12$$

$$R = \frac{P}{B}$$

£ 96,000

3,000,000

P = 96,000

B = 3,000,000

17

$$H = 0.032 \times 100$$

3.2%

Ans

Distan Remaining distance

- 26.2-22

- 4.2 miles

we, know, R =

$$R = \frac{P}{B}$$

4.2

B

2612

$$= 160 \times 100$$

166

. . . 16% left to run Ans

18)

New value

=

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

we, know. $B = f = 203500$

110%

2

\$185000

$$P = 20350 \text{ G}$$

$$R = 110\% = \frac{110}{160}$$

$$P = 93.600$$

$$R = 100\% + 20\%$$

120%

we know. $B =$

P

93.600

B

120

$$= 78000$$

then.

B

R

eld

78006

P=78000

120%

65000

Ans

20

New value = $100\% - 10\% = 90\%$

we know,

P

135

B =

P=135

R

96%

R=90% .

= \$150

Ans

21

Raise,

P = BR

1

2300 × 1.57

=

34.5

B=2308 R21.5%

"..new ·Salary = \$2300

+\$34.5

-\$2334.5

(22) Salary to
increase

•P=OR

= 15.25×9%

ANS

15.25×9/100

=1.3725

new per hour salary = 15-25+
1.3725

1662.25 cents

Bry

(0.4)

Discount Amount

P. BR

49.99×76%

8=49.99

$$4999 \times 70/100$$

R-201

$$34993$$

So Sales price - 49.99 - 34.993

\$14.99 Ans

(4) Tax in amount

$$P = BR.$$

$$3400 \times 5$$

$$3400 \times 5/100$$

$$= 170$$

$$\text{Pay} = 3400$$

$$+ 170$$

To

25) Discount Amount

\$3570 Ans

$$P: BR$$

$$3600 \times 20\%$$

$$= 3600 \times 20/100$$

$$B=3400 \quad R=5\%$$

$$B = 3600$$

$$R = 20\%$$

$$720$$

Discounted price

=

$$3600 - 720$$

$$\text{\$}2880 \text{ Ans}$$

(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

$$1.51$$

$$P=1.51$$

$$5.99$$

$$B=5.99$$

$$= 0.2520 \times 100$$

$$= 25.2\%$$

Ans

Decrease .

97-00-10800

10800-9700

1100

we know,

R

P

1100

$$= 0.102 \times 100$$

B

10300

$$P = 1100$$

$$B = 10800$$

10.2%

Ans

29

Credit card users

$$P = BR$$

$$3a \times B$$

$$40 \times 80\%$$

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

$$B = 440$$

$$R = 80\%$$

30

Tax amount.

$$P = BR$$

$$= 30 \times 6\%$$

$$= 30 \times 6/100$$

$$= \$1.80$$

Ans

Amount paid,

$$P = BR$$

=

$$= 63 \times 60\%$$

$$= 63 \times 60/100$$

$$= \$437.8 \text{ million}$$

$$B = 330$$

$$R = 6\%$$

$$B = 463 \text{ R} =$$

$$60\%$$

32

we know

P

27

B =

$$P = 27$$

R

51.

$$R = 5\%$$

27

-540

5/100

$$= \$540$$

(34)

we know

$$R = \frac{P}{B}$$

37

B

50

$$P = 37$$

$$B=50$$

$$= 0.74 \times 100$$

74%. Ans

Increase amount

New 'Rent

$$P=BR$$

$$= 940 \times 8\%$$

=

$$940 \times 8/10$$

0

$$=\$75.2$$

$$= 940 + 75.2$$

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

$$B = \$940 \quad R = 8\%$$

we know,

$$R = \frac{P}{B}$$

↳

$$= \frac{17}{26}$$

$$P = 17$$

$$= \frac{26}{100}$$

$$B = 26$$

$$= 0.6538 \times 100$$

$$= 65\%$$

Ans