

(1) Ans. a
 Explanation:
 D;ksafd tc Hkh xzkgd cSad ls : fudkyrk gS rks cSad ds fy, jksdM cfgZokg gksrk gSA vr% cSad jksdM dks tek o xzkgd ds [kkrs dks uke djrh gSA

(2) Ans. d
 Explanation:
 ;g pSd cSad esa laxzg.k ds fy, Hkstk x;k ftls cSad }kjk 2 Qojh dks tek fd;k x;kA vr% ikl cqd dk 'ks"k 60000: 31 tuojh dks bl laxzg.k dks 'kkfey djus ls iwoZ dk gSA tcfd jksdM cgh esa ;g ckr 25 tuojh dks ntZ gks pqdh gSA vr% 31 tuojh dks jksdM cgh dk 'ks"k ikl cqd ds 'ks"k ls 20000 : vf/kd gksxkA 60000\$20000³/₄80000

(3) Ans. c
 Explanation:
 D;ksafd ;g jk'kh nksuksa iqLrdksa esa ntZ dh tk pqdh gSA vr% bl O;ogkj ls jksdM cgh o ikl cqd esa dksbZ vUrj ugha vk;sxkA

(4) Ans. a
 Explanation:

Balance as per Cash Book (Cr.)	20,500
+ Cheque returned (unpaid)	<u>25,000</u>
	45,500
- Direct deposit by a customer	<u>50,000</u>
Balance as per Pass Book (Cr.)	4,500

(5) Ans. a
 Explanation:

Cash Book Balance:	10000
Less: Deposited but not cleared	(500)
Add: Not recorded in Cash book	<u>1000</u>
Pass Book Balance	<u>10500</u>

(6) Ans. a
 Explanation:

Pass Book Balance	—
Less: Direct Deposit in Bank	=
Added	±

(7) Ans. a
 Explanation:

Cash Book Balance	10800
Less: Wrong debit by bank	(500)
Less: Direct Payment by bank	<u>(450)</u>
Pass book balance	<u>9850</u>

(8) Ans. c

Explanation:

Cash Book	+	?
Add:	+	<u>233</u>
Pass Book	+	<u>233</u>

(9) Ans. b

Explanation:

16490

Dr. Balance as per cash book	15,000
Add: Cheque issued but not presented for payment	2,150
Less: Cheque deposited but not cleared	660
Cr. Balance as per pass book	16,490

(10) Ans. b

Explanation:

Rs. 255

Overdraft as per pass book	450
Add: Cheque drawn but not presented for payment	105
Less: Cheque sent for collection but not credited by bank	300
Overdraft as per cash book	255

(11) Ans. c

Explanation:

tc Hkqk;k x;k fcy vuknj.k gks tkrk gS ys[kd viuh iqLrd esa fuEu izfof"V djsxkA

Drawee A/c Dr.
To Bank

(12) Ans. a

Explanation:

Entry in the Books of Rohit

Raj. a/c Dr. 5200
To B/R a/c 5000
To Discount a/c 200

Dr.		Discount A/c		Cr.	
Particular	Amount	Particular	Amount	Particular	Amount
		By Raj.	200		

(13) Ans. c

Explanation :

$$\text{Amount Received} = 2000 - \left(2000 \times \frac{3}{12} \times \frac{6}{100}\right) = 1970$$

$$\text{Amount send to Sohan} = 1970 \times \frac{1}{2} = 985$$

(14) Ans. d

Explanation:

Drawer & Drawee in agreed ratio.

As the bill amount is utilized by both the parties, discount is also shared.

- (15) Ans. c
Explanation:
Bill can be produced to notary public for all the reasons to dishonor.
- (16) Ans. c
Explanation:
tc dksbZ fcy yS[kd }kjk i`Bkadu dj fn;k tkrk gS rks ys[kd Endorser gLrkUrj.kdrkZ dgykrk gSA
- (17) Ans. c
Explanation:
fcy dks ,d ls v/khd ckj i`Bkadu fd;k tk ldrk gSA
- (18) Ans. c
Explanation:
fcy 12 tqv 2006 dks 2 ekg ds fy, fy[kk x;k gSA 12 tqv esa 2 ekg tksMus ij 12 vxLr vkrk gS rFkk 3 fnu xzSI ds tksMus ij 15 vxLr vkrk gSA 15 vxLr dks lkoZtuhd vodk`k ds dkj.k fcy 14 vxLr dks ns; ekuk tkosxkA
- (19) Ans. a
Explanation: fnokfy;k gksus fd n`kk esa fcy vuknfjr ekuk tkrk gSA
- (20) Ans. a
Explanation:
fcy ds uohuhdj.k dh n`kk esa igys iqjkus fcy dks jì djus dh izfof`V dh tkrh gSA vr% dFku IR; gSA
- (21) Ans. a
Explanation: Interest = $30000 \times \frac{14}{100} \times \frac{3}{12} = \text{Rs. } 1050$
- (22) Ans. a
Explanation: Bad Debt = $75000 \times 40\% = \text{Rs. } 30000$
- (23) Ans. a
Explanation:
Percentage of Amt. remitted by Ram to Aslam = $\frac{19600}{5800} \times 100 = 33.33\%$ or $\frac{1}{3}$

Ram's Share = $1 - \frac{1}{3} = \frac{2}{3}$
Ratio = Ram : Aslam
2 : 1
Discount on second bill = $84000 - 82200 = 1800$
Ram's Share of Discount = $1800 \times \frac{2}{3} = 1200$
- (24) Ans. c
Explanation:
Debtor A/c Dr.

To Bill sent to the bank for collection A/c

(25) Ans. b

Explanation:

B/P A/c	Dr.
To Drawer A/c	

(26) Ans. b Rs. 16130

Explanation:

Over draft as per pass book	10000
Add : Cheques drawn but not presented for payment	6000
Add : Bank Charges recorded twice in Cash Book	30
Add : Cheques deposited in bank but not recorded in Cash Book	100
Overdraft as per Cash Book	16130

(27) Ans. a

Explanation:

Balance as per pass book	2430
Add : Cheques paid but not yet credited	1390
Less : Cheques issued but not presented for Payment	1710
Balance as per cash book	2370

(28) Ans. a

Explanation:

Balance as per cash book	10000
Add : Cheque issued and presented on 4 th April	2300
Less : Cheque sent to bank but not credited	2000
Less : B/P Paid by bank but not entered in cash book	800
Balance as per pass book	9500

(29) Ans. c

Explanation:

Balance as per pass book	20000
Add : Cheque deposited but not cleared	5000
Less : Cheque issued but not presented	7000
Balance as per cash book	18000

(30) Ans. a

Explanation:

cSad }kjk ykHkka'k dk laxzg.k fd;k tk pqdk gS vr% cSad us vius [kkrs eas 'ks"k c<k j]kk gSA vr% jksdM cgh esa Hkh 'ks"k dks c<k fn;k tk;sxkA

(31) Ans. a

Explanation:

Bgjko O;FkZ gS

(32) Ans. a

Explanation:

tc Lohd`fr dk i= iza" k.k ds fy, Mky fn;k tkrk gSA

(33) Ans. d

Explanation:

cgqr fo'oluh; vuqca/k

(34) Ans. a

Explanation:

okbZ vuqca/k ls ck/; gSA

(35) Ans. a

Explanation:

fdlh nqdkunkj }kjk oLrqvka dh ewY; lwph iznf'kZr djuk lafonk vf/kfu;e] ds vUrxZr izLFkkiuk ugha cfYd izLFkkiuk ds fy, fueU=.k gSA

(36) Ans. a

izLrko dk

(37) Ans. c

(38) Ans. c

Explanation:

fdlh vij/k ds fo" k; essa vUos" k.k djuk iqfyl vf/kdkjh dk fof/kd drZO; gS vkSj fof/kd drZO;ksa dk ikyu djuk fdlh opu dk izfrQy ugha gks IdrkA vr% ,sls opu dk izozru ugha dj;k;k tk IdrkA vr% ;g ,d 'kwU; lafonk gSaA

(39) Ans. b

Explanation:

Hkkjrh; lafonk vf/kfu;e] 1872 dh /kkjk 4 ds vuqlkj izLFkkiuk dh lalwpuk rc IEiw.kZ gks tkrh gS tc izLFkkiuk ml O;fDr ds Kku esa vk tkrh gS ftlls og dh xbZ gSaA

(40) Ans. d

Explanation:

Hkkjrh; lafonk vf/kfu;e] 1872 dh /kkjk 19 vkSj 19 &a ds vuqlkj Lora= lgefr ds vHkko esa fd;k x;k dj;k ml i{kdkj ds fodYi ij 'kwU;dj.kh; gksrk gS ftdh IEefr ,sls izklr dh x;h gS

(41) Ans. c

,d gh ckr ij ,d gh vFkZ esa erSD; dk vFkZ gS ,d gh oLrq ds fy;s ,d gh vFkZ es dj;k djukA

(42) Ans. c

Explanation:

Hkkjrh; lafonk vf/kfu;e] 1872 dh /kkjk 20 ds vuqlkj tgkWa fd fdlh dj;k ds nksuksa i{kdkj ,slh rF; dh ckr ds ckjs esa tks dj;k ds fy, eeZHkwr gSa] Hkwy esa gks ogkWa dj;k 'kwU; gSaA vr% ;fn Hkwy gS rF; dh fof/k dh ugha] rks dj;k 'kwU; gksxkA

- (43) Ans. c
fdlh fookfgrk efgyk dks bl izfrQy ds lkFk .k nsus dk vuqcU/k djuk fd og vius ifr ls rykd ysdj .knkrk ls fookg dj ysxh] Hkkjrh; lafonk vf/kfu;e] 1872 dh /kkjk 23 ds vuqlkj vuSfrd djki gksus ls 'kwU; gksxk vkSj .knkrk okLro esa nh xbZ jde Hkh olwy ugha dj ldrkA
- (44) Ans. a
Explanation:
rsy ds O;olk;h jke }kjk foosd dks ,d lkS Vu rsy cspus dk djki oS/k gksxkA D;ksafd oLrq ftldh vkiwfrZ djuh gS fuf'pr gSA
- (45) Ans. a
Explanation:
,sIk gj djki 'kwU; gS tks vizklr; ls fHkUu fdLH O;fDr ds fookg ds vojks/kkFkZ gSA vr% fookg vojksf/kr djki 'kwU; gksrs gSA
- (46) Ans. b
Explanation:
djki ftldk vFkZ u rks fuf'pr gS vkSj u fuf'pr cuk;s tkus ;ksX; gS] /kkjk 29 ds vuqlkj 'kwU; djki dgrs gSA
- (47) Ans. b
'kwU; djki D;ksfd vIEHko gS
- (48) Ans. c
gk; ;fn vuqcU/k dk 1 flrEcj] 1872 dks vFkok bls i'pkr~ fu"iknu fd;k x;k gksA
- (49) Ans. d
, ch dks ,d dkMZ ikVhZ esa fueaf=r djrk gSA ch fuea=.k dks Lohdkj dj ysrk gSA
- (50) Ans. a
iRuh vuqcU/k ls cp ldrh gSA
- (51) Ans. b
Explanation:
dEiuh ek;x ls fdLH dEiuh fo'ks"k ds mRiknksa dh ek;x dk cks/k gksrk gSA
- (52) Ans. a
Explanation:
pqafd izfrLFkku oLrqvksa ds IEcU/k esa vkMh ;k frjNh yksp /kukRed gksrh gSA
- (53) Ans. a
Explanation:
isV^aksy dk ewY; ;fn c<rk gS rks dkj dh ekax de gksrh gS vr% .kkRed laca/k lkk;k tkrk gSA
- (54) Ans. c
Explanation:

bu nks oLrqvksa dks lj jkcVZ fxfQu us fxfQu oLrqvksa dk uke fn;k Fkka

- (55) Ans. a
Explanation:
D;ksafd nksuks oLrq,sa vlacf/kr gS rFkk mudk vkil esa dksbZ IEcU/k ugha gS rFkk ftu oLrqvksa dk vkil esa dksbZ IEcU/k ugha gksrk mudh vkWMh ;k frjNh yksp 'kwU; gksrh gSA
- (56) Ans. d
Explanation:
pqafd izfrLFkkiu oLrq,a os gksrh gSa ftUgsa ,d&nwjls ds LFkku ij dke esa fy;k tkrk gSA
- (57) Ans. a
Explanation:

$$e_i = \frac{\frac{20\%}{50\%}}{\frac{20\%}{50\%}} = 0.4$$
- (58) Ans. c
Explanation:
pqafd foykflrkiw.kZ oLrqvksaa dh yksp $e > 1$ gksrh gSA
- (59) Ans. b
Explanation:
pqafd ;g n'kkZrk gS fd ewY; esa dksbZ ifjorZu ugha gksrk gS pkgs ek=k esa fdruk Hkh ifjorZu gks tk;sA
- (60) Ans. b
Explanation:

$$e_i = \frac{\frac{50\%}{20\%}}{\frac{50\%}{20\%}} = 2.5\% (e > 1)$$
 vkSj foykflrkiw.kZ oLrqvksa ds IEcU/k esa vk; yksp $\frac{1}{4}e > 1\frac{1}{2}$ gksrh gSA
- (61) Ans. a
Explanation:
jkWfcUI ds vuqlkj] $\Delta V_{FkZ} = \text{og fofkku gS tks ekuo O;ogkj dk y\{;ksa vkSj lher rFkk oSdfYid mi;ksx okys lk/kuksa ds chp IEcU/k dk v\;;u djrk gSA}^{\Delta}$;g ifjHkk"kk Δe ;&fcUnq Δ ls lacaf/kr gSA
- (62) Ans. a
Explanation:
bl fof/k ds vUrxZr fl)kUrksa dks rkfdZd :i ls fudkyk tkrk gSA dqN vk/kkjHkwr

ekU;rkvksa ;k Lohdk;Z fl}kUrksa ;k IR;ksa ds vk/kkj ij] ftudks LFkkfir fd;k tk pqdk gS rFkk ih<+h nj ih<+h vkxs c<+k;k tkrk g]S fu"d"kZ vkSj lkekU; fl)kUr fudkys tkrs gSaA

(63) Ans. b

(64) Ans. c

Explanation:

izks- ,-lh- ihxw us ^ vkfFkZd dY;k.k** dh vo/kkj.kk izfrikfnr dhA izks- ihxw ds vuqlkj ^ gekjh [kkst dh lhek lkekftd dY;k.k ds ml Hkkx rd lhfer gks tkrh gS tks izR;{k ;k vizR;{k :lk ls eqnz :ih NM+ ls ekh tk ldrh gSA

(65) Ans. a

Explanation:

izks- jkWfcUI ds vuqlkj] ^izR;sd miHkksDrk viuh lHkh vko';drkvksa dks lUrq"V djuk pgrk gS ijUrq lk/kuksa dh U;gurk vFkkZr~ deh ds dkj.k og lHkh vko';drk,j lUrq"V ugha dj ldrkA bly, og vko';drk dh rhozrk ds vk/kkj ij lUrq"V djrk gSA vr% bl izdkj jkWfcUI dk dguk gS fd vFkZ'kkL= ¼vko';drkvkaas½ lk/;ksa ds e/; rVLFk gSA

(66) Ans. d

(67) Ans. d

Explanation:

csjstxkj esa deh ds lca/k esa] mRiknu IEHkkouk oØA lhek PPC ds Hkhrj ls fcUnq PPC oØ ij xfr'khy gksrk gSA bldk rkRi;Z ;g gS fd lk/kuksa dk iw.kZ mi;ksx gks jgk gS D;ksafd yksksa dks jkstxkj izklr gks x;k gSA

(68) Ans. b

(69) Ans. b

(70) Ans. a

(71) Ans. b

(72) Ans. d

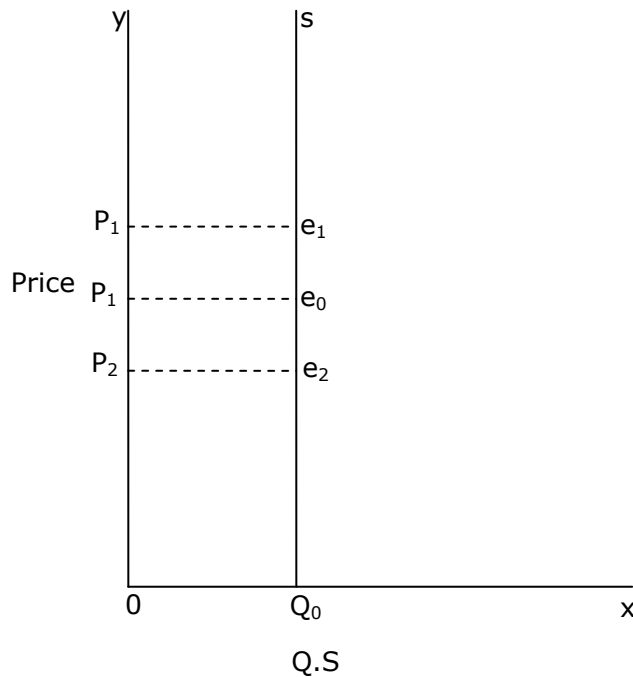
Explanation:

oLrq dh dher rFkk iwfrZ ek=k esa izR;{k lEcu/k gksrk gSA tc oLrq dh dher c<+rh gS rks foØsrk dk ykHk Hkh c<+rk gS vr% T;knk dher ij og T;knk cspkxA

(73) Ans. a

Explanation:

if the demand curve is perfectly elastic, then the equilibrium price is determined by the supply curve. In this case, the supply curve is perfectly inelastic, so the equilibrium price is determined by the demand curve.



(74) Ans. a

Explanation:

When the demand curve is perfectly elastic, the equilibrium price is determined by the supply curve. In this case, the supply curve is perfectly inelastic, so the equilibrium price is determined by the demand curve.

(75) Ans. a

Explanation:

if the demand curve is perfectly elastic, then the equilibrium price is determined by the supply curve. In this case, the supply curve is perfectly inelastic, so the equilibrium price is determined by the demand curve.

(76) Ans. d

Explanation:

$$\text{Let } 6^x = 5^y = 30^z = k$$

$$\therefore 6^x = k \Rightarrow 6 = k^{1/x} \quad \dots(1)$$

$$\therefore 5^y = k \Rightarrow 5 = k^{1/y} \quad \dots(2)$$

$$\text{and } 30^z = k \Rightarrow 30 = k^{1/z} \quad \dots(3)$$

$$\therefore 6 \times 5 = 30$$

$$(k^{1/x})(k^{1/y}) = (k^{1/z})$$

$$k^{1/x+1/y} = k^{1/z}$$

Hence $\frac{1}{x} + \frac{1}{y} = \frac{1}{z}$

$$\Rightarrow \frac{y+x}{xy} = \frac{1}{z}$$

$$\Rightarrow z = \left(\frac{xy}{x+y} \right)$$

(77)

Ans. b

Explanation:

$$\frac{6^{n+2} - 30 \times 6^{n-1}}{6^n \times 10}$$

$$\Rightarrow \frac{6^n \cdot 6^2 - 5 \times 6 \times 6^n \cdot 6^{-1}}{6^n \times 10}$$

$$\Rightarrow \frac{6^n [36 - 5]}{6^n \times 10}$$

$$\Rightarrow \frac{31}{10} \text{ Ans.}$$

(78) Ans. a

Explanation:

$$A + B + C = 385$$

$$A = \frac{2}{9}(B+C)$$

$$\frac{9A}{2} = B+C$$

$$\frac{9}{2}A + A = 385$$

$$\frac{11A}{2} = 385, \quad A = 70 :-$$

(79)

Ans. b

Explanation:

$$3a = 4b \quad 5c = 2b$$

$$3a = 4b = 10c$$

$$3a = 4b = 10c = k$$

$$a = k/3, \quad b = k/4, \quad c = k/10$$

$$\frac{k}{3} : \frac{k}{4} : \frac{k}{10} \quad ;k \quad 20:15:6$$

$$a : c \quad \boxed{10:3}$$

(80)

Ans. b

Explanation:

$$\left(\sqrt{x} - \frac{1}{\sqrt{x}}\right)^2 = x + \frac{1}{x} - 2 = 3 + 2\sqrt{2} + 3 - 2\sqrt{2} - 2$$

$$\left(\sqrt{x} - \frac{1}{\sqrt{x}}\right)^2 = 4$$

$$\left(\sqrt{x} - \frac{1}{\sqrt{x}}\right) = 2$$

(81) Ans. c

Explanation:

$$\begin{aligned} & \left(\frac{x+2}{x+1}\right)\left(\frac{x+3}{x+2}\right)\left(\frac{x+4}{x+3}\right)\left(\frac{x+5}{x+4}\right) \\ &= \frac{x+5}{x+1} \end{aligned}$$

(82) Ans. c

Explanation:

$$a:b = b:c$$

$$b^2 = ac$$

$$a^4 : (b^2)^2$$

$$a^4 : (ac)^2$$

$$a^4 : a^2c^2$$

$$a^2 : c^2$$

(83) Ans. d

Explanation:

$$(a^3 + b^3), (a^2 - ab + b^2), (a - b), x$$

$$(a^3 + b^3)x = (a^2 - ab + b^2)(a - b)$$

$$x = \frac{(a^2 - ab + b^2)(a - b)}{(a^3 + b^3)}$$

$$x = \frac{(a^2 - ab + b^2)(a - b)}{(a + b)(a^2 - ab + b^2)}$$

$$x = \frac{a - b}{a + b}$$

(84) Ans. a

Explanation:

vk;	[kpkZ	cpr
100	75	25
120	82.5	37.5

$$\text{mldh cpr } c < +s\text{xh} = \frac{12.5}{25} \times 100$$

$$= 50\%$$

(85) Ans: c

Explanation:

Ekkuk dh fgju vkSj eksj dh la[;k x vkSj y gSA

$$x + y = 80 \dots\dots\dots(i)$$

$$4x + 2y = 200 \dots\dots\dots(ii)$$

eqⁿ (i) vkSj eqⁿ(ii) dks gy djus ij

$$y = 60$$

(86) Ans. b

Explanation:

$$16 \left(\frac{a-x}{a+x} \right)^3 = \frac{a+x}{a-x}$$

$$\left(\frac{a-x}{a+x} \right)^4 = \left(\frac{1}{2} \right)^4$$

$$\frac{a-x}{a+x} = \frac{1}{2}$$

$$\Rightarrow 2a - 2x = a + x$$

$$a = 3x$$

$$\therefore x = \frac{a}{3}$$

(87) Ans. d

Explanation:

ekuk fd f=Hkqt dh Hkqtk;s 6x, 4x vkSj 3x gSA

$$\text{rks } 6x + 4x + 3x = 52$$

$$x = 4$$

$$\text{lcl NksVh Hkqtk dh yEckbZ} = 3 \times 4 = 12 \text{ cm}$$

(88) Ans. c

Explanation:

vkneh dh orZeku vk;q x o"kZ rFkk mls nksuksa csVksa dh vk;q dk ;ksx y o"kZ gS

$$x = 3y \dots\dots\dots(i)$$

$$x + 5 = 2(y + 5 + 5) \dots\dots\dots(ii)$$

$$\text{From (i) \& (ii) } 3y + 5 = 2(y + 10)$$

$$\text{;k } 3y + 5 = 2y + 20$$

$$\text{;k } 3y - 2y = 20 - 5$$

$$\text{;k } y = 15$$

$$\therefore x = 3 \times y = 3 \times 15 = 45$$

ml vkneh dh orZeku vk;q gksxh 45 o"kZ

(89) Ans. b

Explanation:

prqFkZd fopyu pje ewY;ksa ij fuHkZj ugha djrk gSA vr% [kqys fljs okys oxksZa esa Hkh bls Kkr fd;k tk ldrk gSA

(90) Ans. b

Explanation:

$$\begin{aligned} \text{ekud fopyu } (\sigma) &= \sqrt{\text{fopj.k}} \\ &= \sqrt{100} = 10 \end{aligned}$$

lekUrj ek/; dh x.kuk (\bar{X}) fuEu lw= }kjk gksxh %
 cgqyd = 3 ekf/dk- 2 ek/;
 $29 = (3 \times 23) - 2 \text{ ek/};$
 $\text{ek/}; = (69 - 29) / 2 = 20$

$$\begin{aligned} \text{fopj.k xq.kkad (CV)} &= \frac{\sigma}{\bar{X}} \times 100 \\ \therefore \text{CV} &= \frac{10}{20} \times 100 = 50\% \end{aligned}$$

(91) Ans. a

Explanation:

pj.k & 1 izk:i ds voyksduksa dks foLrkj ds vkjksgh Øe esa O;fLFkr djus ij
 $x/5, x/3, x/2, x$

$$\begin{aligned} \text{pj.k \& 2 ekf/dk} &= \binom{n+1}{2} \text{ok}_i \text{ in} \\ &= \binom{4+1}{2} \text{ok}_i \text{ in} \\ &= 5/2 \text{ ok}_i \text{ in} \\ &= 2.5 \text{ok}_i \text{ in} \end{aligned}$$

blfy, ekf/dk $3/4$ 2 ok_i in + 0.5 $1/3$ ok_i in & 2 ok_i in $1/2$

$$10 = \frac{x}{3} + 0.5 \left(\frac{x}{2} - \frac{x}{3} \right)$$

$$10 = \frac{x}{3} + 0.5 \left(\frac{3x - 2x}{6} \right)$$

$$10 = \frac{x}{3} + \frac{x}{12}$$

$$10 = \frac{4x + x}{12}$$

$$10 = \frac{5x}{12}$$

$$x = \frac{10 \times 12}{5}$$

$$x = 24$$

x dk eku 24 gSaA

(92) Ans. b

Explanation:

$$n = 32, \sigma = 5, \Sigma x = 80$$

$$\sigma = \sqrt{\frac{\Sigma x^2}{n} - (\bar{x})^2}$$

$$(5)^2 = \frac{\Sigma x^2}{32} - 6.25$$

$$\Sigma x^2 = 1000$$

(93) Ans. a

Explanation :

$$\text{Average Speed} = \frac{100}{\frac{60}{30} + \frac{20}{20} + \frac{20}{10}} = 20 \text{ km/hr.}$$

(94) Ans. b

Explanation:

$$\begin{aligned} \text{G.M.} &= (2 \times 2^2 \times 2^3 \times 2^4 \times 2^5 \times 2^6)^{1/6} \\ &= 2^{7/2} \end{aligned}$$

(95) Ans. a

(96) Ans. c

Explanation: $q_1 = 104$, $QD = 26$

$$QD = \frac{Q_3 - Q_1}{2}$$

$$Q_3 = 26 \times 2 + 104 = 156$$

(97) Ans. a

Explanation:

$$\text{A.M.} = (16 + 4)/2 = 10$$

$$\text{G.M.} = \sqrt{16 \times 4} = 8$$

$$\text{H.m.} = \frac{2 \times 16 \times 4}{16 + 4} = 6.4$$

(98) Ans: a

Explanation:

$$\text{Igh dqy vk;} = 50 \times 5850 - 8600 - 5400 - 6800 - 4500 = 289800$$

$$\text{Igh vkSlr vk;} = \frac{289800}{50} = 5796$$

(99) Ans. d

Explanation:

$$n = 25$$

$$A = 45$$

$$\Sigma d = -55$$

$$\bar{x} = A + \frac{\Sigma d}{n}$$

$$= 42.8$$

(100) Ans. b

Explanation:

$$\text{fn;k x;k gS, } x \text{ ds eku } \text{ } \emptyset \text{ e'k\% } x_1, x_2, \dots, x_{10}, -x_1, -x_2, \dots, -x_{10} \text{ gSa}$$

$$\therefore \sum_{i=1}^{20} x_i = 0$$

$$\text{rFkk fn;k x;k gS \% } \sum_{i=1}^{20} x_i^2 = 40$$

$$\begin{aligned} \therefore \text{vr\% x dk ekud fopyu} &= \sqrt{\frac{\sum_{i=1}^{20} x_i^2}{n} - \left(\frac{\sum_{i=1}^{20} x_i}{n}\right)^2} \\ &= \sqrt{\frac{40}{20} - \left(\frac{0}{20}\right)^2} = \sqrt{2} \end{aligned}$$
