

(1) Ans. b

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

(2) 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

(3) 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

(4) 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

(5) 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

(6) 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

(7) Ans. d

Explanation:

;g pSd cSad esa laxzg.k ds fy, Hkstk x;k ftls cSad }kjk 2 Qjoh 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

(8) 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

(9) Ans. a
Explanation:

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

(10) 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>

(11) Ans. a
Explanation:

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

(12) 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>

(13) Ans. c
Explanation:

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

(14) 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

(15) 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

(16) Ans. c

Explanation:

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

Drawee A/c Dr.

To Bank

(17) 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		

(18) Ans. c

Explanation :

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

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

(19) Ans. d

Explanation:

Drawer & Drawee in agreed ratio.

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

(20) Ans. c

Explanation:

Bill can be produced to notary public for all the reasons to dishonor.

(21) Ans. c

Explanation:

tc dksbZ fcy ys[kd }kjk i`Bkadu dj fn;k tkrk gS rks ys[kd Endorser gLrkUrj.kdrkZ dgykrk gSA

(22) Ans. c

Explanation:

fcy dks ,d ls v/khd ckj i`Bkadu fd;k tk ldrk gSA

- (23) Ans. c
Explanation:
fey 12 tqu 2006 dks 2 ekg ds fy, fy[kk x;k gSA 12 tqu esa 2 ekg tksMus ij 12 vxLr vkrk gS rFkk 3 fnu xzSl ds tksMus ij 15 vxLr vkrk gSA 15 vxLr dks lkoZtuhd vodk'k ds dkj.k fey 14 vxLr dks ns; ekuk tkosxkA
- (24) Ans. a
Explanation: fnokfy;k gksus fd n'kk esa fey vuknfjr ekuk tkrk gSA
- (25) Ans. a
Explanation:
fey ds uohuhdj.k dh n'kk esa igys iqjkus fey dks jì djus dh izfof"V dh tkrh gSA vr% dFku IR; gSA
- (26) Ans. a
Explanation: Interest = $30000 \times \frac{14}{100} \times \frac{3}{12} = \text{Rs. } 1050$
- (27) Ans. a
Explanation: Bad Debt = $75000 \times 40\% = \text{Rs. } 30000$
- (28) 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 = $1800 \times \frac{2}{3} = 1200$
- (29) Ans. c
Explanation:
Debtor A/c Dr.
 To Bill sent to the bank for collection A/c
- (30) Ans. b
Explanation:
B/P A/c Dr.
 To Drawer A/c
- (31) Ans. a
Explanation:
Bgjko O;FkZ gS
- (32) Ans. a
Explanation:
tc Lohd`fr dk i= izs"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 oLrqvkas dh ewY; lwph iznf'kZr djuk lafonk vf/kfu;e] ds vUrxZr izLFkkiuk ugh cfYd izLFkkiuk ds fy, fueU=.k gSA
- (36) Ans. a
izLrko dk
- (37) Ans. c
- (38) Ans. c
Explanation:
fdlh vijk/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 ftldh 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 djkj 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 djkj oS/k gksxkA D;ksafd oLrq ftdh vkiwfrZ djuh gS fuf'pr gSA
- (45) Ans. a
Explanation:
,slk gj djkj 'kwU; gS tks vizklr; ls fHkUu fdlh O;fDr ds fookg ds vojks/kkFkZ gSA vr% fookg vojksf/kr djkj 'kwU; gksrs gSA
- (46) Ans. b
Explanation:
djkj ftdk vFkZ u rks fuf'pr gS vkSj u fuf'pr cuk;s tkus ;ksX; gS] /kkjk 29 ds vuqlkj 'kwU; djkj dgrs gSA
- (47) Ans. b
'kwU; djkj D;ksfd vIEHko gS
- (48) Ans. c
gkj ;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 ekjx ls fdlh dEiuh fo'ks"k ds mRiknksa dh ekjx dk cks/k gksrk gSA
- (52) Ans. a
Explanation:
pqafd izfrLFkku oLrqvksa ds lECU/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 izfrLFkku oLrq,a os gksrh gSa ftUgSa ,d&nwljs ds LFkku ij dke esa fy;k tkrk gSA
- (57) Ans. a
Explanation:
$$e_i = \frac{\text{ek=keai fr'kr i fjorZ}}{\text{vk; eai fr'kr i fjorZ}} = \frac{20\%}{50\%} = 0.4$$
- (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:
$$e_i = \frac{\text{ek=keai fr'kr i fjorZ}}{\text{vk; eai fr'kr i fjorZ}} = \frac{50\%}{20\%} = 2.5\% (e > 1)$$

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] ^vFkZ'kkL= og foKku gS tks ekuo O;ogkj dk y{;ksa vkSj lhfer rFkk oSdfYid mi;ksx okys lk/kuksa ds chp IEcU/k dk v/;;u djrk gSA^^ ;g ifjHkk"kk ^le;&fcUnq^^ 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 LFkknfir 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 ^k vkfFkZd dY;k.k** dh vo/kkj.kk izfrikfnr dhA izks- ihxw ds vuqlkj ^k 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] ^k izR;sd miHkksDrk viuh IHkh vko';drkvksa dks lUrq"V djuk pkgrk gS ijUrq lk/kuksa dh U;qurk vFkkZr~ deh ds dkj.k og IHkh vko';drk; ijUrq"V ugha dj ldrkA blfy, 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:

csjksxkj 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 yksxksa dks jkstkj izklr gks x;k gSA

(68) Ans. b

(69) Ans. b

(70) Ans. a

(71) Ans. b

(72) Ans. d

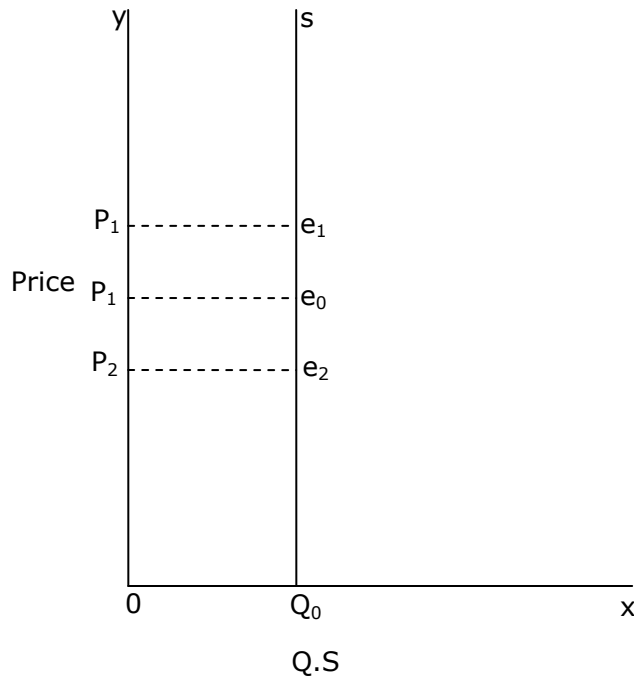
Explanation:

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 cpsxkA

(73) Ans. a

Explanation:

;fn iwfrZ ek=k esa dksbZ Hkh ifjorZu uk gks bldk vFkZ gS fd iwfrZ ek=k fLFkj jgs rc yksp 'kwU; gksrh gSA



- (74) Ans. a
 Explanation:
 dher o oLrq dh iwfrZ ek=k esa izR;{k IEcU/k gksrk gS bl dkj.k iwfrZ oØ dk <ky Åij dh vksj mBrk gqv k gksrk gSA
- (75) Ans. a
 Explanation:
 iwfrZ esa ladqpu vFkkZr~ ^iwfrZ ek=k esa deh** oLrq fo'ks"k dh dher esa deh ds dkj.k gh gksrh gSA
- (76) Ans. d
 Explanation:
- (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:
 fn;k gS $A + B + C = 385$

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

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

$$;k \quad \frac{9}{2}A + A = 385$$

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

(79)

Ans. b

Explanation:

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

$$;k \quad 3a = 4b = 10c$$

$$ekuk \quad 3a = 4b = 10c = k$$

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

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

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

(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:

$$\left(\frac{x+2}{x+1}\right)\left(\frac{x+3}{x+2}\right)\left(\frac{x+4}{x+3}\right)\left(\frac{x+5}{x+4}\right)$$

$$= \frac{x+5}{x+1}$$

(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

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

$$= 50\%$$

(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

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

$$x = 4$$

lcls 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

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

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

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

$$;k \quad 3y + 5 = 2y + 20$$

$$;k \quad 3y - 2y = 20 - 5$$

$$;k \quad y = 15$$

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

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:

$$\text{ekud fopyu } (\sigma) = \sqrt{\text{fopj.k}}$$

$$= \sqrt{100} = 10$$

lekUrj ek/; dh x.kuk (\bar{X}) fuEu lw= }kjk gksxh %

$$\text{cgqyd} = 3 \text{ ekf/;dk} - 2 \text{ ek/;}$$

$$29 = (3 \times 23) - 2 \text{ ek/;}$$

$$\text{ek/;} = (69 - 29) / 2 = 20$$

$$\text{fopj.k xq.kkad (CV)} = \frac{\sigma}{\bar{X}} \times 100$$

$$\therefore \text{CV} = \frac{10}{20} \times 100 = 50\%$$

(91) Ans. a

Explanation:

pk & 1 izk:i ds voyksduksa dks foLrkj ds vkjksgh Øe esa O;fLFkr djus ij

$$x/5, x/3, x/2, x$$

$$\text{pk \& 2 ekf/;dk} = \binom{n+1}{2} \text{ok}_i \text{ in}$$

$$= \binom{4+1}{2} \text{ok}_i \text{ in}$$

$$= 5/2 \text{ ok}_i \text{ in}$$

$$= 2.5 \text{ok}_i \text{ in}$$

blfy, ekf/;dk $\frac{3}{4} \times 2 \text{ ok}_i \text{ in} + 0.5 \times \frac{1}{3} \text{ ok}_i \text{ in} + 2 \text{ ok}_i \text{ in}$

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

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

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

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

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

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

$$x = 24$$

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:

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

$$= 2^{7/2}$$

(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:

$$n = 25$$

$$A = 45$$

$$\Sigma d = -55$$

$$\begin{aligned} \bar{x} &= A + \frac{\Sigma d}{n} \\ &= 42.8 \end{aligned}$$

(100) Ans. b
Explanation:

fn;k x;k gS, x ds eku Øe'k% $x_1, x_2, \dots, x_{10}, -x_1, -x_2, \dots, -x_{10}$ gSaA

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

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

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