
Mathematics Session 1

WKCE Grade 10 Hmong Script

KOS NEJ LO LUS TEB RAU DAIM WKCE SAU UA LUS

1. Cov ntawm no khub twg thiaj yog khub nyob rau hauv daim duab nrag nqe zauv (leb) $3x - 2y = 12$?

- (-6, 0)
- (0, 4)
- (3, 4)
- (4, 0)

2. Lub Tsev Kawm Txuj Raymond tau nce cov neeg txawj zauv (mathematicians) nyob nws cov neeg ua hauj lwm rau xyoo 1996 – 2000. Cov neeg txawj zauv nyob tom Lub Tsev Kawm Txuj Raymond txhua xyoo ntawd yog muaj raws li nyob hauv daim duab teev ntsiab lus (table) hauv qab no.

Cov Neeg Txawj Zauv Nyob Tom Lub Tsev Kawm Txuj Raymond	
Xyoo	Cov Neeg Txawj Zauv
1996	32
1997	35
1998	39
1999	44
2000	50

Yog tias ua tus qauv nyob hauv daim duab teev ntsiab lus ntxiv mus, yuav muaj cov neeg txawj zauv (mathematicians) nyob tom Lub Tsev Kawm Txuj Raymond rau xyoo 2004 pes tsawg leej?

- 62
- 74
- 84
- 95

3. Txoj kab $y = -\frac{1}{3}x + 2$ raug muab nrag rau hauv daim ntxaij (grid) hauv qab no.

(Saib hauv phau Askiv nyob nplooj 4)

Cov ntawm no kab twg thiaj yuav mus raws tib seem (parallel) li txoj kab tau nrag ntawd?

$y = \frac{1}{3}x + 2$

$y = -3x + 2$

$y = 2x + \frac{1}{3}$

$y = -\frac{1}{3}x + 3$

4. Xib fwb Nelson npaj ua ib lub tshav (park) tshiab uas yuav muaj lub tshav baseball (baseball diamond) thiab lub tshab softball (softball diamond) tib si. Lub tshav baseball yuav muaj qhov cheeb tsam loj tib yam nkaus li lub tshav softball. Daim duab nrag qhia (diagram) ntawm lub tshav uas muaj qhov chaw tso lub tshav softball tau qhia rau hauv qab no.

(Saib hauv phau Askiv nyob nplooj 5)

Qhov chaw ntawm lub tshav baseball yuav raug muab daim duab ntawm lub tshav softball ntxeev ze rau ntawm txoj kab $y = x$. Qhov chaw (coordinates) ntawm daim duab raug muab ntxeev ntawm lub kaum sib cob point C ntawd yog li cas?

- (3, 9)
- (9, -3)
- (-9, 3)
- (-3, -9)

Mathematics Session 2

WKCE Grade 10 Hmong Script

- 5. Peb tug neeg (candidates) tab tom sib tw yuav los ua tus tswv nroog (mayor) nyob hauv lub nroog Morganville. Lub tuam txhab ntawv xov xwm hauv zos tau ua ob daim ntawv thom nug cov neeg tawm suab seb lawv npaj yuav pov ntawv rau tus twg. Daim ntawv thom nug 1 yog siv 6 lub hli ua ntej qhov kev xaiv thiab daim ntawv thom nug 2 yog siv 3 lub hli ua ntej qhov kev xaiv. Cov ntsiab lus muab tau ntawm ob daim ntawv thom nug los yog muaj raws li qhia hauv qab no.**

Daim Ntawv Thom 1

Adams	35%
Baxter	15%
Crawford	50%

Daim Ntawv Thom Nug 2

Adams	20%
Baxter	20%
Crawford	60%

Raws li cov ntsiab lus muab tau los ntawm ob daim ntawv thom nug, cov ntawm no nqe twg thiaj muaj tseeb?

- Crawford yuav yeej qhov kev xaiv xwb xwb li.
- Cov neeg yuav pov ntawv rau Baxter coob dua Adams nyob rau qhov kev xaiv.
- Crawford siv nyiaj ntau dua ntais ntawm peb tug neeg ntawd.
- Baxter muaj cov neeg pab txhawb nyob rau thaum daim ntawv thom nug 1 thiab daim ntawv thom nug 2.

- 6. Ib tug ecologist qhov av muaj 188,000 square hneev taw (feet). Nws xav cog ntoo rau li 18% ntawm nws qhov av ntawd. Pes tsawg square hneev taw ntawm qhov av yuav raug muab cog ntoo? Sau lo lus teb mus rau qhov ze square hneev taw (foot).**

- 10,444 square hneev taw
- 18,800 square hneev taw
- 33,840 square hneev taw
- 135,360 square hneev taw

7. Barbara mus xyuas teb chaw Japan thiab Australia nyob rau nws lub caij so mus ncig ua si. Tus nqi pauv nyiaj ntawm Unites States cov nyiaj dollars thiab cov nyiaj nyob rau ob lub teb chaws nws mus xyuas ntawd yog muaj raws li qhia rau hauv qab no.

Tus Nqi Pauv Nyiaj

1 U.S. dollar = 105.5 Japanese yen
1 U.S. dollar = 1.63 Australian dollars

- Thaum nws mus txog rau hauv Australia, nws muaj 10,500 Japanese yen. Qhov nyiaj no muaj nqi li cas rau cov Australian dollars?
- 64.72 Australian dollars
 - 99.53 Australian dollars
 - 162.23 Australian dollars
 - 171.97 Australian dollars
8. Daim duab teev ntsiab lus (table) hauv qab no muaj qhov mus cob (coordinates) rau ob tog kawg ntawm ib lub voj voog txoj kab phua nruab nrab (diameter).

<i>x</i>	<i>y</i>
2	5
-2	5

- Cov points ntawm no qhov twg thiaj yog lub plawv ntawm lub voj voog?
- (2, 0)
 - (6, 5)
 - (1, 5)
 - (0, 5)

9. Carla tab tom txiav nyom khwv nyiaj los yuav ib lub tsheb qub uas raug \$1,500. Carla niam thiab txiv tau pom zoo pab \$1 rau txhua \$1 nws khawv tseg. Carla khaws tseg tau \$10 los ntawm txhua thaj nyom nws txiav. Carla txiav 3 thaj nyom nyob hauv ib lub as thiv. Carla kwv yees tias yog muaj nws niam thiab nws txiv nkawv qhov kev pab nws yuav tsum yuav tau lub tsheb nyob rau hauv 20 lub as thiv.

Nyob rau hauv lub voj hauv qab no, piav seb Carla qhov kev kwv yees ntawd yuav raug los tsis raug. Siv zauv (leb) los piav koj lo lus teb. Koj yuav siv lus, kev laij leb, los yog duab nrag qhia rau hauv koj nqe lus teb los tau.

10. Yuav kom sim tau qhov kev ua hauj lwm zoo (effectiveness) ntawm ib cov tshuaj tshiab tsim los ua kom qhov ntshav siab (blood pressure) ho qis zog, ib tug neeg tshawb kawm txog tshuaj npaj ob pawg los sim. Pawg siv tshuaj (dose group) yuav tau noj cov tshuaj tshiab ntawd ho ib pawg yuav yog pawg raug tswj (control group). Pawg raug tswj ntawd yuav tau noj cov placebo, uas yog ib co ntsiav tshuaj zoo li lub tshuaj tiag tiag tab sis tsis muaj tshuaj nyob hauv li. Cov neeg tuaj koom yuav tsis paub tias lawv yuav tau noj tshuaj los yog noj placebo kom txog rau tom qab qhov kev sim ntawd xaus.

Lub luag hauj lwm ntawm pawg raug tswj nyob hauv qhov kev sim nyog yog dab tsi?

- los xyuas meej kom txhua tus nyob hauv pawg siv tshuaj noj cov tshuaj
- los txheeb kom cov placebo txhob ua hauj lwm rau cov neeg tuaj koom qhov kev sim no.
- los xyuas meej kom cov neeg muaj ntshav siab dua ntais tau cov tshuaj noj.
- los txheeb kom tej qhov kev ua hauj lwm muaj nyob hauv pawg siv tshuaj yog los ntawm cov tshuaj tiag.



11. Nyob tom ib lub khw muag khoom (electronic store), Karen khwv tau 5% nyiaj khiab nqi tes (commission) ntawm cov khoom nws muag. Daim duab teev ntsiab lus (table) hauv qab no qhia txog qhov nws cov kev muag khoom hauv plaub lub as thiv.

Kara Qhov Kev Muag Khoom				
Lub As Thiv	1	2	3	4
Kev Muag	\$1,920	\$1,680	\$3,360	\$2,640

Kara qhov nyiaj khiab nqi tes tag nrog ua ke hauv plaub lub as thiv no yog li cas?

- \$12
- \$40
- \$120
- \$480

12. Ib lub tuam txhab ua teeb taws tab tom tsim ua ib lub teeb muaj 6 lub qhov muag teeb (bulbs). Cov qhov muag teeb nyob rau tom kawg ntawm 6 tus kav sib ntev zos (congruent) raws li qhia hauv qab no. Cov qhov muag teeb txhua lub raug muab kem ib ncig ntawm lub teeb xwm yeem tib yam nkaus.

(Saib hauv phau Askiv nyob nplooj 10)

Qhov kev ntsuas ntawm lub ces kaum (x) ntawm txhua tus kav yog li cas?

- 30°
- 60°
- 120°
- 180°

13. Daim duab nrag ntsiab lus (graph) hauv qab no muaj ntsiab lus hais txog tus nqi rau The Chopper, yog cov cuab yeej siv rau hauv chav ua noj (kitchen tool) uas tau nthuav tawm (advertised) nyob hauv TV. Tus nqi nyob ntawm qhov tus customer yuav siv hu tuaj sai npaum li cas tom qab qhov kev nthuav tawm ntawd xaus.

The Chopper Tus Nqi	
Cov feeb (m) tom qab qhov kev nthuav tawm xaus	Tus Nqi
$0 \leq m \leq 10$	\$34.95
$10 < m \leq 20$	\$39.95
$20 < m \leq 30$	\$44.95
$30 < m \leq 40$	\$49.95
$m > 40$	\$59.95

- Ib tug customer uas xaj (orders) 3 qho Choppers 23 feeb tom qab qhov kev nthuav tawm hauv TV xaus tau them ntau dua tug customer uas xaj 2 qho Choppers 17 feeb tom qab qhov kev nthuav tawm ntawd npaum li cas?
- \$15
 - \$35
 - \$40
 - \$55

14. Tau xa 9.75 vam (million) thoob roj a (petroleum) tuaj rau Teb chaws United States nyob hauv ib hnub xyoo 1999. Qhov no qhia tau li ib nrab ntawm qhov xav tau cov roj a (petroleum) txhua hnub nyob teb chaws United States. Ib thoob ntim tau 42 gallons. Raws li cov ntsiab lus no, teb chaws United States qhov xav tau cov roj a txhua hnub nyob rau xyoo 1999 yog pes tsawg gallon?
- 85 vam gallons
 - 205 vam gallons
 - 397 vam gallons
 - 819 vam gallons

- 15.** Ib tug engineer paub tias ib lub thoob loj ntim tau 50 gallons dej. Nws qhov kev tshawb kawm kawg no nws xav nrhiav qhov volume nyob hauv cubic centimeters. Nws yuav siv cov kev pauv hauv qab no los pauv 50 gallons mus ua cubic centimeters.

Cov Kev Pauv Qhov Ntsuas Tej Yam Ua Kua

1 gallon = 4 quarts

1 liter = 1000 cubic centimeters dej

1 liter = 1.0567 quarts kua

Hauv lub voj hauv qab no, lai j seb muaj pes tsawg cubic centimeters dej nyob hauv 50 gallons. Sau koj lo lus teb mus rau qhov ze tus nab npawg kheej (whole number). Siv kev ua zauv (lej) los piav koj lo lus teb. Koj yuav siv lus, kev lai j leb los yog duab nrag qhia rau hauv koj nqe lus piav los tau.

Lo lus teb: _____ cubic centimeters

16. Saib daim duab (figure) hauv qab no.

(Saib hauv phau Askiv nyob nplooj 13)

Cov ntawm no qhov twg thiaj piav tau qhov sib thooj ntawm daim duab 1 thiab daim duab 2?

- Daim duab 2 yog ib qho txhais ntawm daim duab 1.
- Daim duab 2 yog ib qho tig 180° ntawm daim duab 1.
- Daim duab 2 yog ib qhov ntseev rov ntsug ntawm daim duab 1.
- Daim daub 2 yog ib qhov ntseev rov tav ntawm daim duab 1.

17. Jill kos tau ib lub voj voog nyob hauv daim ntxaij. Nws kos ib txoj kab phua plawv (diameter) rau lub voj voog ntawm (-3, -2) mus rau (5, 2) raws li qhia hauv qab no.

(Saib hauv phau Askiv nyob nplooj 13)

Qhov ntev ntawm txoj kab phua plawv (diameter) ntawm lub voj voog uas Jill kos tau ntawd yog li cas? Sau lo lus teb mus rau qhov ze unit dua ntais.

- 4 units
- 5 units
- 9 units
- 12 units

18. Nqe zauv (leb) equation qhia hauv qab no muaj cuab kav siv tau los kws yees ib tug neeg qhov low-density lipoprotein cholesterol (LDL), uas C yog qhov cholesterol tag nrho ua ke, H yog qhov high-density lipoprotein cholesterol, thiab T yog qhov triglycerides. Cov kev ntsuas txhua qhov yog milligrams nyob hauv ib deciliter ntawm cov ntshav.

$$LDL = C - H - T/5$$

Ib tug neeg cov ntsuam xyuas tau lipoprotein yog li hauv qab no.

Cov Ntsuam Xyuas Tau Lipoprotein	
Tag nrho cov cholesterol (C)	230
High-density lipoprotein (H)	50
Triglyceride (T)	80

Tus neeg no qhov LDL yog li cas?

- 20
- 100
- 164
- 180

19. Lub tsev kho mob A muaj 360 lub txaj, 30 txaj yog cia rau cov neeg mob hnyav. Lub tsev kho mob B me zog muaj 164 lub txaj xwb, 14 lub txaj yog cia rau cov neeg mob hnyav. Cov ntawm no nqe twg thiaj sib piv tau raug qhov feem pua ntawm cov txaj rau neeg mob hnyav nyob tom ob lub tsev kho mob ntawd?

- Lub tsev kho mob A muaj cov txaj rau cov mob hnyav 8.3% ntau dua lub tsev kho mob B.
- Lub tsev kho mob A muaj cov txaj rau cov mob hnyav 12.0% ntau dua lub tsev kho mob B.
- Lub tsev kho mob B muaj cov txaj rau cov mob hnyav 8.5% ntau dua lub tsev kho mob A.
- Lub tsev kho mob B muaj cov txaj rau cov mob hnyav 11.7% ntau dua lub tsev kho mob A.

20. Jared tab tom thaum nws ob tug phooj ywg, Larry thiab Daryl tom tsev kawm ntawv mus tsev. Nws yuav thau Larry ua ntej, cem mam thau Daryl, ces Jared mam tsav los mus tom nws tsev. Daim duab teev ntsiab lus (chart) hauv qab no qhia txog cov kev Jared muaj cuab kav yuav mus tau rau txhua ncuab kev.

Jared's Trip	
Ncuab Kev	Txoj Kev
Tom tsev kawm ntawv rau tom Larry tsev	3
Tom Larry tsev rau tom Daryl tsev	4
Tom Daryl tsev rau tom Jared tsev	2

Cov kev tag nrho rau qhov kev thauj mus tsev no yog pes tsawg txoj kev?

- 9
- 12
- 24
- 27