

Qib 7

MINNESOTA COV LUS QHIA TXOG COV QAUV UAS MUAJ RAU TSEV NEEG

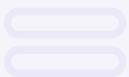
Dab Tsi Yog Cov Uas Koj Tus Me Nyuam

Kawm Qib 7 Yuav Tsum Tau Paub

Cov Dej Num & Cov Ua Piv Txvv Ntawm Kev

Kawm Lus As Kiv (ELA) & Kev Kawm Ua Lej

Tswv Yim Mus Nrog Cov Xib Hwb Qhia Ntawv Sib Tham

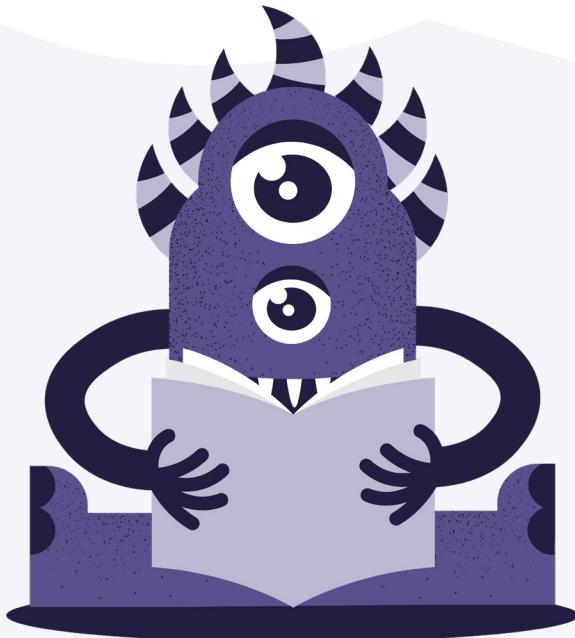


Hais txog cov lus qhia ntawm no

Cov yim neeg yeej xav paub hais tias saib lawv tus me nyuam kawm dab tsi hauv tsev kawm ntawv. Lawv xav tawm suab los pab lawv tus me nyuam thiab los pab kom lawv tus me nyuam kawm tau ntaub ntawv.

Minnesota Department of Education (Minnesota Lub Chaw Tuav Dej Num Saib Xyuas Kev Qhia Ntawv) yog lub chaw txiav txim hais tias saib txhua tus me nyuam yuav kawm dab tsi hauv tsev kawm ntawv nyob rau txhua Yam kev kawm. Cov lus qhia ntawm no yeej pab ua kom koj nkag siab txog cov qauv nyob hauv Kev Kawm Lus As Kiv (English Language Arts (ELA) & Kev Kawm Ua Lej. Qhov ntawm no yuav pab koj mus nrog koj tus me nyuam cov xib hwb qhia ntawv koom tes los mus txhawb txoj kev kawm thaum qib 7.

**Ua ntej koj yuav muab cov lus qhia ntawm no coj los xyuas,
peb thov kom koj mus saib hauv [www.bealearninghero.org/
readiness-check-mn](http://www.bealearninghero.org/readiness-check-mn) kom koj paub meej hais tias saib koj
tus me nyuam kawm qib ntawv dab tsi tam sim no.**





Cov lus qhia ntawm no yeej muaj



**Dab tsi yog cov uas koj tus me nyuam yuav tsum tau paub & yuav tsum ua tau-
PHAB NTAVV 4 RAU ELA & PHAB NTAVV 16 PARA MATEMÁTICAS**

Cov ntaub ntaww tseem ceeb tshaj (kev paub & txuj ci) uas cov tub ntxhais kawm ntaww yuav tsum tau paub thaum lawv kawm tag qib 7



PHAB NTAVV 8 RAU ELA & PHAB NTAVV 19 RAU KEV KAWM UA LEJ

Qhov ntaww ua piv txwv uas koj tus me nyuam yuav tsum sau tau thaum kawm tag qib 7



Cov dej num niaj hnub los mus txhawb txoj kev kawm-

PHAB NTAVV 14 RAU ELA & PHAB NTAVV 21 RAU KEV KAWM UA LEJ

Cov haus kev uas koj yuav pab tau koj tus me nyuam nyob hauv txoj kev kawm cov ntaub ntaww tseem ceeb & cov txuj ci hauv Kev Kawm Lus As Kiv (English Language Arts (ELA)) & Kev Kawm Ua Lej



Tswv yim mus nrog cov xib hwb qhia ntaww sib tham-

PHAB NTAVV 15 RAU ELA & PHAB NTAVV 21 RAU KEV KAWM UA LEJ

Koj & koj tus me nyuam tus xib hwb yuav sib koom tes tau li cas los mus pab kom koj tus me nyuam paub ntaub ntaww ntxiv



Cov lo lus hais txog kev qhia ntaww nrog cov lus txhais-

PHAB NTAVV 23

Cov lus txhais ntawm cov lo lus hais txog kev qhia ntaww uas tseem ceeb rau qib 7



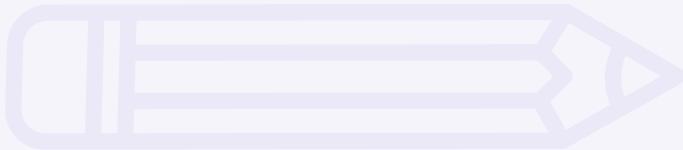
Kev Kawm Lus As Ki (ELA)

DAB TSI YOG COV UAS KOJ TUS ME NYUAM
YUAV TSUM TAU PAUB & YUAV TSUM UA TAU

Nyob hauv qib 7, cov tub ntxhais kawm ntawv yeej muab cov lus uas ib tug neeg sau ntawv tau sau coj los saib & muab saib hais tias seb tus neeg ntawd muab tej yam ntawd sau hais zoo li cas. Cov tub ntxhais kawm ntawv yeej nug lawv tus kheej hais tias saib tus kws sau ntawv xav li cas, yeej nrhiav cov tsww yim tseem ceeb nyob hauv ib cov ntawv, & yeej nrhiav saib cov lus uas tus kws sau ntawv sau puas muaj tseeb. Lawv yuav nyeem ntawv los mus kawm ib cov lo lus tshiab & los mus kawm kom paub ntau ntxiv txog lub ntiaj teb. Cov ntawv uas cov tub ntxhais kawm ntawv yuav tsum yog cov uas muaj ib nrab yog cov lus hais txog tej yam tsis muaj tseeb & muaj ib nrab yog cov lus hais txog tej yam muaj tseeb. Cov phau ntawv yuav tsum muaj cov ntawv uas nyuaj thiab yooj yim & yuav tsum qhia cov tub ntxhais kawm ntawv hais txog cov tib neeg, cov chaw, & tsww yim tshiab, suav nrog rau cov tsww yim ntawm cov tib neeg Dakota & Anishinaabe yav tag los & tam sim no.

Cov me nyuam kawm qib 7 yuav tsum nquag sau ntawv. Lawv yuav sau cov ntawv luv & cov ntawv ntev uas yuav tau siv ntau ntau hnub coj los sau. Cov tub ntxhais kawm ntawv yuav tsum paub feem ntau ntawm kev sau cov lo lus kom muaj cov tsiaj ntawv yog tag (spelling), paub cov lus tswj kev siv lus thiab sau ntawv (grammar), & kev siv cov cim (punctuations) & paub hais tias yuav siv li cas. Lawv yuav tsum tau paub ntaus ntawv. Lawv yuav xyauum tshawb fawb, xyauum xav & xyauum muab cov ntawv lawv sau kho dua raws li cov lus uas lawv tus xib hwb & cov tub ntxhais uas nrog lawv kawm ntawv ua ke tau hais rau lawv hais txog lawv cov ntawv. Lawv yuav sau ntawv hais txog ntau yam tsww yim rau ntau qhov uas qhia hais tias yog vim li cas.

Yog xav pom tag nrho lub xeev cov qauv rau ELA rau cov tub ntxhais kawm qib 7, mus xyauas ntawm no: education.mn.gov/mde/dse/stds/ela



Cov me nyuam kawm qib 7 yuav tsum tau paub ua cov ntaub ntawv hauv qab thaum lub xyoo kawm ntawv xaus:

TXUJ CI PAUB SAU THIAB PAUB NYEEM NTAWV

- ☑ Nyeem tau cov ntawv uas muaj rau cov me nyuam kawm qib 7 nyeem, uas yog theem Lexile 925-1185
- ☑ Nyeem tau cov ntawv uas muaj cov me nyuam kawm qib 7 nyeem kom tsis txhob muaj qhov khuam, uas yog nyeem tau 170 lo lus rau ib feeb
- ☑ Nyeem tau ntawv ua lub suab uas qhia hais tias lawv yeej nkag siab cov ntawv thaum lawv nyeem
- ☑ Sau & rov qab muab cov ntawv uas lawv sau tag kho kom sau tau cov lo lus muaj cov tsiaj ntawv yog tag (spelling), sau tau ntawv yog tag raws li cov lus tswj kev sau ntawv (grammar), & sau tau kom muaj cov cim (punctuation) yog tag.
- ☑ Siv khoom technology los mus sau ntawv & los mus kawm ntawv nrog lwm cov me nyuam & los mus tshawb fawb txog ib yam dab tsi uas siv cov chaw los sis ntawv uas ntseeg hais tias yuav tsis muaj cov lus cuav
- ☑ Yuav tsum tsis txhob siv cov ntawv uas tsis yog lawv cov, uas yog muab hu ua plagiarism (**kev muab cov ntawv uas yog lwm tus neeg sau coj los ua tus kheej cov ntawv**)
- ☑ Nkag siab lawv **cov hneev taw nyob hauv koom hluav taws xob (digital footprint)**, uas yog cov ntaub ntawv peb tso tseg rau hauv internet thaum peb nkag mus siv
- ☑ Ntaus tau 38-40 lo lus nyob hauv ib feeb. Ntaus tau ntawv tsawg kawg los yog li ntawm peb phab ntawv hauv ib teev



KEV KAWM TXOG LUB NTIAJ TEB LOS NTAWM NTAWM

Ⓐ Nug & teb cov lus nug hais txog cov ntawv uas lawv nyeem tag. Rov qab muab cov ntawv nyeem dua los mus nrhiav tej cov lus coj los ua kom lawv nkag siab. Nkag siab lub ntsiab lus txawm hais tias tus neeg sau yeej tsis muab lub ntsiab lus hais meej meej rau hauv. Ua tau cov nram qab no:

- Muab cov ntsiab lus sau ua luv luv uas yeej tsis muab cov lus qhia txog lawv txoj kev xav coj los ntxiv rau li
- Nrhiav tau cov ntsiab lus tseem ceeb, cov lus tseem ceeb, & cov tswv yim tseem ceeb
- Kawm saib tus kws sau ntawv muab ib tug neeg tseem ceeb, ib qhov dab tsi tseem ceeb los sis ib lub tswv yim tseem ceeb coj los qhia thawj zaug zoo li cas & saib cov ntawm no ho pauv zoo li cas
- Piav qhia saib cov lus nyob hauv tej ntus ntawm cov ntawv muaj dab tsi rau lub ntsiab lus ntawm zaj dab neeg
- Piav qhia saib zaj dab neeg yog mus zoo li cas & saib saib cov neeg nyob hauv zaj dab neeg ho ua li cas
- Kawm saib qhov uas tus kws sau ntawv & lawv txoj kev muaj dab tsi rau cov ntawv
- Muab cov dab neeg tsis muaj tseeb coj los piv rau tej yam tshwm sim raws keeb kwm
- Nug tus kheej saib tus kws sau ntawv los sis ib tug neeg hais lus xav li cas
- Muab qhov uas ib cov ntawv hais txog coj los xav. Nws puas muaj v thawj txaus coj los qhia hais tias cov tswv yim ntawd yeej muaj tseeb?

Ⓐ Siv cov lus qhia nyob hauv cov ntawv, cov phau ntawv txhais lus, los sis lub hauv paus ntawm lo lus coj los nrhiav cov lus txhais ntawm cov lo lus tshiab uas lawv tsis paub hais tias yog txhais li cas thiab **cov paj lus (figurative language)**.

Ⓐ Sau ntawv txog ib cov ntawv tom qab muab cov ntawv ntawd nyeem tag. Muaj ib cov lus qhia ua ntej nrog ib **nqis lus uas xav hais tias yog vim li cas**, cov tswv yim piv txwv uas muab tso raws sij hawm, & ib cov lus xaus hais tias yog vim li cas

Ⓐ Siv cov ntawv uas lawv sau coj los piav qhia txog ib yam dab tsi. Siv ntaw txoj kev coj los piav qhia txog lawv tus kheej, suav nrog rau kev muab sib piv/kev qhia qhov txawv (compare/contrast), qhov ua rau muaj tshwm sim/qhov muaj tom qab tshwm sim tag (cause/effect), teeb meem/cov kev daws qhov teeb meem (problem/solutions), & lus qhia hais tias xav li cas. Sau ntawv siv ib cov lo lus uas cuam tshuam rau ib yam dab tsi. Siv cov lo lus uas muab lus sib txuas coj los muab cov tswv yim tso kom hais tau sib dhos.

Jean Baptiste de Lamarck and Charles Darwin were both naturalists that had theories about organisms getting helpful variations. Lamarck's theory was called the theory of acquired characteristics and Darwin's was called the theory of evolution by natural selection. Lamarck and Darwin's theories are the same and different in some ways.

- Ⓐ Sau cov tswv yim uas yeej hais tau txaus ntseeg. Siv ntawt txoj kev coj los hais kom tus neeg nyeem pom zoo li qhov nws hais. Paub teb cov lus uas neeg tsis pom raws li qhov nws pom.

Dear Teachers,

I have recently begun learning about the "Shut Down Your Screen" week. This is a program where kids in school and out of school don't use any electronics for one week. Everyone in your school would participate. This is a way to save the way we think and try something new. My question is, should we participate in the national "Shut Down Your Screen Week?" I think it would be a good idea for many reasons.

First, I think we should participate because using too much technology affects the way we think and behave. In the article Attached to Technology and Paying a Price by Matt Richtel it gives many scientifically proven facts that using technology too much affects the way we think. If you are juggling e-mail, phone calls and other incoming information it can lose people's focus. Also as the text states, "The stimulation provokes excitement that researchers say can be addictive. In its absence, people feel bored." This means that people can become addicted and when not using technology become bored with things they used to love to do.

- Ⓐ Sau ntawv los tsim & piav qhia txog lawv tus kheej (paj huam, dab neeg, cov phau ntawv qhia txog tus kheej los sis lwm tus neeg, tej yam neeg ib txwm ntseeg, & yeeb yam). Siv kev sib tham lus, cov lo lus piav qhia, & 5 yam ntawm neeg txoj kev paub (senses) coj los qhia ib tus neeg nyob hauv ib zaj dab neeg cov kev xav, kev mob siab mus ua ib yam dab tsi, & tej yam uas tus neeg ntsib. Siv txoj kev uas yuav muab cov ntawv tso tau kom yog (piv txww, tso ua tej tshooj (chapters), tso ua cov sob lus paj huam (stanzas), cov chaw uas muaj dab tsis tshwm sim (scenes)) & cov lo lus pauv ntawm ib yam mus rau ib yam coj los qhia saib tej yam uas neeg ntsib & muaj tshwm sim yog muab kev sib cuam tshuam zoo li cas.

¹Cov ntawv uas Student Partners tso lus rau peb muab coj los siv ua piv txww. "Cov Ntawv Cov Tub Ntxhais Kawm Ntawv Sau Uas Peb Muab Coj Los Siv Ua Piv Txww." Achieve the Core (Ua Tiav Lub Hauv Paus), <https://achievethecore.org/category/330/student-writing-samples>



COV PIV TXWV RAU ELA RAU QIB 7

Hauv qab no yog ib qhov piv txwv ntawm cov ntawv uas cov me nyuam kawm qib 7 yuav tau nyeem. Cov ntawv ntawm no yog nyob rau theem Lexile 1050. Cov me nyuam kawm qib 7 yuav tsum nyeem tau cov ntawv ntawm no kom tsis txhob muaj qhov khuam & kom muaj lub suab zoo li txoj kev xav hauv cov lo lus. Tom qab ntawd, lawv yuav tsum qhia tau rau koj hais tias saib yog muaj dab tsis tshwm sim nyob hauv cov ntawv & teb tau cov lus nug nyob hauv qab no.

How Jackie Robinson Changed Baseball By Jessica McBirney 2017

Today, when you turn the TV to Major League Baseball, you will not be surprised at all to see an African American or Latino player take the mound. Maybe your favorite player is a person of color. But baseball has not always been as diverse as it is now. In 1947, Jackie Roosevelt Robinson became the first African American to play on a Major League Baseball team. The road he paved was an important, but difficult one.

Early Athletic Success

Robinson was born in Georgia on January 31, 1919, the youngest of five children. His father left the family just a year later, and his mother moved her children to Pasadena, California. She worked odd jobs to support her family, but Robinson still grew up in relative poverty.

When Jackie enrolled in high school, his siblings encouraged him to get involved in school sports teams. He excelled in football, basketball, track, and baseball. He broke many school sports records. Robinson continued to play all of these sports in junior college. Ironically, he viewed baseball as his weakest sport. He transferred to UCLA to complete his degree, where he became the first athlete to letter 3 in all four of those sports. UCLA had some of the most racially integrated college sports teams at the time, but Robinson was still among a very small minority of non-white athletes on all his teams.

Fighting Racism

Even early in his life, Robinson confronted racism head on. In 1938, while still at junior college, he was arrested after disputing the police detention of one of his Black friends. He managed to escape a long jail sentence, but this and other run-ins with the police earned him a reputation as someone who was both eager and willing to stand up against racial oppression. When the U.S. entered World



War II, Robinson enlisted in the army. He never saw direct combat, but his military career was marred by racial problems. While stationed in Texas, Robinson boarded a non-segregated bus, but he was instructed to sit in the back anyway. He refused, and military police took him into custody for his insubordination. Fortunately, one month later, an all-white jury acquitted him, but the situation was an early indication of the racial prejudice he'd come to face later in life.

A Negro Player with Guts

Robinson joined the professional Negro Leagues to play baseball in early 1945. He signed with the Kansas City Monarchs and had great success, but he was frustrated by all the disorganization that plagued the Negro Leagues. At the time, a few Major League teams were recruiting from the Negro Leagues, and Robinson struck up a relationship with the General Manager of the Brooklyn Dodgers, Branch Rickey. Rickey liked the potential he saw in Robinson, but he had one question. He knew Robinson would face racial discrimination and injustice if he joined the Major Leagues. Could he be "a Negro player with enough guts not to fight back?" Robinson promised that he could, and signed a contract with the Montreal Royals, the Dodgers' top minor league team. After just one season, he transferred to the Brooklyn Dodgers. As he stepped onto the field as first baseman in 1947, Jackie Robinson became the first Major League Baseball player to break the color barrier since 1880. He was 28 years old. African-American fans flooded to Dodgers games, and even the general public and the press had a mostly positive view of the team's newest addition. However, Robinson faced discrimination from a few of his own team members, who threatened to sit out of games if he was allowed to play. Management took Robinson's side — "I say he plays," said the manager. "I say he can make us all rich. And if any of you cannot use the money, I will see that you are all traded." Other teams also disliked Robinson's admittance into the League. Many threatened not to play against him. Most managers rejected these threats and forced the players to participate anyway. Instead, they took it out on Robinson directly during the games. Some players were physically violent — he once received a 7-inch gash in his leg from an opponent who spiked him with his cleats — while others hurled verbal racial insults at him and his teammates. The racism from other teams only united the Dodgers, however, and the team grew more accepting of him.

²"How Jackie Robinson Changed Baseball" was Jessica McBirney and tus sau. Copyright © 2017 by CommonLit, Inc. Cov ntawv ntawm no yog ib cov uas peb tau ntawv tso lus raws li CC BY-NC-SA 2.0

Major Success

Robinson won Rookie of the Year in 1947. In later seasons, more African-Americans joined other teams in the Major Leagues, as Robinson continued to excel. His success gained him fans from all over the country. He started at second base for the National League in the 1949 All-Star game, and he helped the Dodgers win the 1949 National League pennant. Over the next several years his success grew, and by 1955 the Dodgers pulled out a win in the World Series. Robinson was 36 and starting to feel the effects of his age. In 1956 he did not dominate the league as much as he used to, partially because of the adverse effects of the diabetes he suffered from. When the Dodgers traded him to the New York Giants, Robinson decided to quit baseball altogether and become an executive for a coffee company instead. A Legendary Impact After his retirement, Robinson remained a baseball legend. In 1962, he received baseball's highest honor when he was elected into the Hall of Fame. His playing style changed many team strategies. For example, he inspired players to be more aggressive in their base-running, rather than relying only on the distance they could hit the ball.

Robinson also made important racial breakthroughs in the sports world. The first baseball player to break the color barrier in 60 years, he paved the way for many future African-American and minority athletes. His career helped the upcoming Civil Rights Movement by giving Americans a heroic African-American sports figure to rally around.



COV LUS NUG KOM TO TAUB

Teb cov lus nug nram qab no, siv cov pov thawj nyob hauv cov ntawv coj los txhawb koj cov lus teb.

1. Muab Robinson lub neej thaum nws tseem hluas thiab thaum nws laus lawm coj los sib piv thiab coj los qhia qhov zoo ib Yam thiab qhov txawv.
2. Jackie Robinson ua li cas es nws thiaj li hla dhau txoj kev neeg muab nws caij tsuj ntawm lwm cov neeg uas nws tau ntsib (nyob hauv lub neej thiab nyob hauv txoj kev ntaus baseball) txawm hais tias neeg tau hais kom nws tsis txhob tawm tsam nrog cov neeg ntawd?
3. Piav qhia qhov uas Robinson tau ntsib thaum nws yog ib tus kws ntaus baseball nyob hauv Major League Baseball.
4. Ua li cas es ntau yam uas Jackie Robinson ua tau zoo nyob hauv baseball thiaj li ua rau nws yog ib tus phab ej rau coob coob tus neeg?
5. Piav qhia txog qhov uas Robinson tau muaj qhov zoo rau Civil Rights Movement (Qhov Kev Tawm Tsam Kom Txhua Tus Neeg Muaj Vaj Huam Sib Npaug Zos).



Hauv qab no yog ib qhov piv txvv ntawm txoj kev sau ntawv nyob hauv qib 7.³

The Boy

The young boy stood with the most menacing look he could muster spread across his face. He just stood there watching the endless columns stretch as far as the eye could see down the long, dusty road. The soldiers would turn and look as they went by, and he made sure to look right back. He made sure to stare as far as he could into the dark pupils of their eyes, as if it would raise the house that was now nothing more than a heap of ashes. Only a few charred remains of the walls were left.

Muab tus neeg tseem
ceeb & thaj chaw uas
zaj dab neeg tshwm
sim coj los qhia rau
tus neeg nyeem ntawv

Siv ib cov lo lus, ib cov
lus piav qhia, & ib cov
paj lus (“giant snake of
blue tails (tus nab loj
muaj ko tw xiav)”)

As his eyes went from soldiers to remains he saw a small soft lump poking up from the ashes. He knew exactly what it was and he turned away. That teddy bear had been his favorite friend. Not a toy, it was more than a toy to him. For a second he was back on a green lawn, with the shutters of a house tapping softly on the window pane. And there was his bear. They waited for the next pirate ship to come around the bend in the road, so they could board it and make the captain walk the plank.

Siv cov lo lus paav coj
los qhia qhov nyob rau
ib lub sij hawm txawv
(rov qab xav txog yav tag
los). Siv ib cov lo lus uas
yuav qhia tau meej coj los
piav qhia qhov uas tus me
nyuam tub nco tau hais
txog nws lub neej ua ntej
cov tub rog tuaj txog.

But then he heard a shout and knew he was back on the dusty road with no green lawn and no shutters tapping softly.

Tus neeg sau zaj dab neeg
yeej tau muab zaj dab neeg
coj los tso kom sib dhos
zoo uas nws yeej cia li maj
mam qhia ib qhov zuj zus
(tiam sis yeej tsis yog qhia
raws li thaum tshwm sim
nyob hauv lub sij hawm)

He leaped down from his perch on an old dresser, one of the few things that hadn't been pillaged or burned in the fire. He bent down, putting both hands on his knees as his eyes searched the ground intently. He picked up the most deadly rock he could find and hopped back up on his perch to resume his watchful glare. No soldier escaped the watchful eyes as he probed them. The giant snake of blue tails was tapering off, and the boy could now see the end of the tail. The boy

Siv ib cov lo lus, ib cov
lus piav qhia, & ib cov
paj lus (“giant snake of
blue tails (tus nab loj
muaj ko tw xiav)”)

³Cov ntawv uas Student Partners tso lus rau peb muab coj los siv ua piv txvv. “Cov Ntawv Cov Tub Ntxhais Kawm Ntawv Sau Uas Peb Muab Coj Los Siv Ua Piv Txvv.” Achieve the Core (Ja Tiav Lub Hauv Paus), <https://achievethecore.org/category/330/student-writing-samples>

once again hopped down from his perch. He could feel the sweat-covered rock in his palm. The last of the blue columns were passing.

The boy took a step forward and leaned back, then whipped his body forward and released the rock at the same moment. The boy heard a thud as the rock came home and the rear most soldier clutched his side and looked back – but all he saw were those hateful eyes with tears rolling forth.

Muaj ib cov lus xaus
uas txuas ntxiv
los ntawm tej yam
uas tshwm sim &
rov qab hais txog
tej yam ntawd





COV DEJ NUM NIAJ HNUB UA LOS MUS TXHAWB TXOJ KEV KAWM

★ Yog koj tus me nyuam kawm qib 7 pheej nres nyob rau ntawm tej lo lus, los sis nws lub suab pheej nrov tsis xws yees thaum nws nyeem ntawv, mus nrog nws tus xib hwb sib tham hais txog qhov nyeem tau ntawv zoo. Ntxiv rau qhov ntawd, hais kom koj tus me nyuam xyaum nyeem ntawv uas tsis muaj ntawv ntau kom nws nyeem tau ntawv zoo ntxiv, zoo li cov paj huam los sis cov dab neeg luv

- Hais kom koj tus me nyuam kawm qib 7 mus xaiv ib phau ntawv uas nws xav nyeem nws tus kheej txhua hnub. Nyeeem ntau phau ntawv ntev ntev mus yeej yog ib yam tseem ceeb. Cia koj tus me nyuam xaiv phau ntawv, sub nws thiaj li yuav xav nyeem
- Nquag mus siv Nroog Hennepin cov tsev cia ntawv - nws yog qhov uas yeej siv tau dawb! Txhua tus neeg yeej mus thov tau ib daim npav siv tsev cia ntawv dawb, tsis hais txog hais tias saib tus neeg txoj kev khaiv tuaj nyob hauv lub teb chaws yuav yog muaj zoo li cas
- Xaiv ib yam dab tsi coj los kawm ua ke. Nyeeem cov phau ntawv, mus saib hauv online, los sis mus tshawb fawb me ntsis txog ib yam dab tsi ua ke. Nug saib tus me nyuam kawm tau dab tsis nyob hauv cov ntawv uas nws nyeem. Hais kom nws muab qhov nws kawm tau coj los qhia rau koj, qhia rau cov phooj ywg, los sis qhia rau lwm tus neeg hauv tsev neeg
- Hais kom koj tus me nyuam xyaum sau ntawv. Lawv yeej siv tau ib phau ntawv coj los sau txhua yam uas tshwm sim rau lawv hauv txhua hnub, yeej sau tau ntawv ua tej tsab ntawv los sis email, los sis sau tau lus tseg hais tias saib lawv kawm tau dab tsi
- Mloog cov lus tshaj tawm hu ua podcast ua ke & sib tham los sis sau ntawv hais qhov koj kawm tau
- Qhia koj tus me nyuam kawm qib 7 kom nws paub hais tias nws yeej siv tau tej yam uas nws kawm nyob hauv tsev kawm ntawv coj los ua nws lub neej yav tom ntej:
 - Hais kom cov phooj ywg & tsev neeg qhia koj tus me nyuam kawm qib 7 kom nws paub hais tias nws yuav muab tej yam uas nws kawm nyob hauv tsev kawm ntawv coj mus siv li cas
 - Mus koom ib qhov kev qhia sau ntawv nyob ntawm lub chaw uas pej xeem mus siv
 - Hais kom koj tus me nyuam mus pab hauj lwm nyob ntawm cov kev sib sau & cov dej num nyob hauv lub zej zog
- Nrog koj tus me nyuam kawm qib 7 sib tham txog tsev kawm ntawv qib siab. Mus nrhiav saib cov ntaub ntawv twg yog cov uas koj yuav tsum tau muaj los mus ua tsab ntawv thov mus kawm tsev kawm ntawv qib siab. Qhia koj tus me nyuam uas kawm tsev kawm ntawv theem nruab nrab (middle school) kom nws paub hais tias cov kev kawm uas nws tab tom kawm tam sim no yeej yog ib cov uas yuav npaj kom nws mus kawm tau tsev kawm ntawv theem siab (high school) & tsev kawm ntawv qib siab (college)
- Muab ib cov hauj lwm hauv tsev rau koj tus me nyuam ua txhua lim tiam uas nws yuav tau nyeem ntawv zoo li ua zaub mov noj, mus yuav khoom, & txheeb cov ntawv uas neeg xa tuaj
- Teev ib lub sij hawm ua cov ntaub ntawv uas coj los kawm hauv tsev & ua raws nraim li ntawd Xyuas kom meej hais tias koj tus me nyuam yeej ua tag nws cov ntaub ntawv uas coj los kawm hauv tsev txhua hnub

**TSWV YIM MUS NROG COV XIB
HWB QHIA NTAWV SIB THAM**

1. Koj muab puas tau cov qhab nia ntawm qhov kev ntsuas kuv tus me nyuam txoj kev paub nyeem ntawv uas nyuam qhuav muaj tag los tsis ntev no rau kuv saib?
2. Kuv tus me nyuam kawm qib 7 ua tau dab tsi zoo, & koj yuav muab cov txuj ci uas nws paub ua ntawm no coj los siv li cas nyob hauv chav kawm ntawv?
3. Cov ntawv uas koj xaiv rau cov me nyuam nyeem yog koj xaiv li cas? Kuv tus me nyuam kawm qib 7 puas yuav pom cov ntsej muag & cov chaw uas lawv paub nyob hauv cov phau ntawv? Lawv puas yuav paub ib cov tib neeg thiab chaw tshiab?
4. Cov me nyuam kawm qib 7 yuav kawm tau dab tsi thaum lawv nyeem ntawv? Kuv tus me nyuam kawm qib 7 yuav tsum nkag siab & paub tham txog dab tsi yog muab saib raws li cov ntawv uas nws nyeem? Cov tswv yim uas lawv nyeem hais txog keeb kwm & science yog cov twg?
5. Kuv tus me nyuam kawm qib 7 puas muaj cib fim los mus xaiv cov phau ntawv uas nws xav nyeem? Puas yog nws tsuas nyeem tau cov phau ntawv uas koj tau xaiv rau nws nyeem xwb? Puas yog nws tsuas nyeem tau cov phau ntawv uas muaj rau cov me nyuam kawm ib qib ntawv twg nyeem xwb? Nws puas nyeem tau tej cov ntawv uas yuav pab nws nyob hauv chav kawm ntawv & nws xav nyeem?
6. Kuv tus me nyuam kawm qib 7 puas sau ntawv coj los qhia hais tias nws yeej paub cov ntawv uas nws tab tom nyeem & tab tom kawm? Nws puas siv cov lus nyob hauv cov ntawv coj los ua piv txvv & puas muaj cov lus qhia meej txaus? Nws puas siv cov lo lus uas muab cov tsaj ntawv tso yog (spelling), siv cov lus tswj txoj kev sau ntawv los sis siv lus yog tag (grammar), & siv cov cim yog tag (punctuation)? Yog nws siv tsis yog, kuv yuav ua li cas kuv thiaj li yuav pab tau nws?
7. Kuv tus me nyuam sau tau ntawv ntawv npaum li cas nyob hauv lub sij hawm kawm ib yam kev kawm ib zaug hauv ib hnub? Koj yuav ua li cas los muab cov lus qhia hais tias koj xav li cas txog cov ntawv nws sau & nws muab cov ntawv nws sau kho li cas?
8. Koj puas muaj cov ntawv ua piv txvv rau cov ntawv uas kuv tus me nyuam sau? Kuv tus me nyuam puas tau rov qab muab ib cov ntawv sau dua?
9. Kuv tus me nyuam kawm qib 7 puas hais tau lus & mloog neeg hais lus nyob hauv chav kawm ntawv uas yeej qhia hais nkag siab cov ntawv uas nws tab tom kawm? Nws puas siv cov pov thawj nyob hauv cov ntawv, siv cov lus teb uas muaj lus qhia meej, & hais lus muaj ntsiab lus txaus coj los qhia hais tias nws yeej nkag siab? Yog nws ua tsis tau zoo li ntawd, cov teeb meem uas nws muaj yog dab tsi?
10. Kuv yuav ua tau dab tsi coj los pab kuv tus me nyuam kawm qib 7 nyob hauv chav kawm ntawv? Nws yuav ua li cas es nws thiaj li yuav muaj kev sib raug zoo nrog koj & nws thiaj yuav sib zog rau nws txoj kev kawm?



Kev Kawm Ua Lej

DAB TSI YOG COV UAS KOJ TUS ME NYUAM
YUAV TSUM TAU PAUB & YUAV TSUM UA TAU

Nyob hauv qib 7, cov tub ntxhais kawm ntawv yeej npaj siab los mus ua cov lej uas muaj **ratios & proportional relationships**. Lawv los kuj yuav siv **algebraic properties** mus rau **expressions** & ua ntawv yam lej uas **rational numbers**. Cov tub ntxhais kawm ntawv yuav tsum tau sib pab nyob hauv chav kawm ntawv, sib tham hais tias saib lawv yuav ua cov lej li cas, & koj qhia kuv kuv qhia koj. Cov me nyuam kawm qib 7 yuav tsum tau siv cov lus qhia txog lej coj los qhia hais tias yog vim li cas (mathematical arguments) & siv ntawv tsum tau sib qhov lawv kww yees ua ntej lawv ua cov lej & yuav tsum tau sib qhov lawv kww yees yeej yog ib qhov tsim nyog muaj.

Yog xav pom tag nrho lub xeev cov qauv rau Kev Kawm Ua Lej rau cov tub ntxhais kawm qib 7, mus xyuas ntawm no: education.mn.gov/MDE/dse/stds/Math

KEV KAWM UA COV LEJ UAS MUAJ RAU QIB 7

Cov me nyuam kawm qib 7 yuav siv feem ntawm lawv lub sij hawm mus kawm cov tswv yim nram qab no. Lawv yuav tsum tau nkag siab zoo txog cov tswv yim ntawm no thaum lub xyoo kawm ntawv xaus.

- Ⓐ Siv ib lub rooj teev lus los sis muab cov lej coj mus tso rau ntawm **ib phab ntawv muaj kab sib tshuam (coordinate plane)** coj los soj ntsuam qhov **proportional relationships**. Paub qhov txawv nyob ntawm proportional relationships & cov ua tsis yog
- Siv proportions coj los ua cov lej uas siv ntaw kauj ruam:
- Ⓐ
- Unit rates (qhov hais tias muaj pes tsawg feem ntawm ib yam dab tsil)
Raul tsav tsheb tau 468 mais (miles) nyob hauv 2 hhub uas yog tsav ceev li ntawm 52 mais rau ib teev. Thawj hhub, nws khiav tsheb tau 4 teev uas yog tsav ceev li ntawd 62 mais rau ib teev. Nyob hauv hhub thib ob, Raul tsav tsheb ceev npaum li cas?
 - Scale factors (qhov hais tias muaj pes tsawg ntawm qhov hnyav), length ratios (qhov hais tias muaj pes tsawg feem ntawm qhov ntev), & area ratios (qhov hais tias muaj pes tsawg feem ntawm qhov dav)
Yog ob yam khoom xim fab xim meem uas qhov dav yog 3 thiab 5, thiab qhov ntev ntawm thawj yam khoom yog 7, qhov ntev ntawm yam khoom thib ob yog li cas?
 - Scale drawings (kev kos duab coj ua qhov dav thiab ntev ntawm ib yam khoom) & conversions of measurement (kev muab qhov kev ntsuas pauv rau lwm yam kev ntsuas)
Siv qhov kev pauv 1 km = 0.62 mais, nws muaj pes tsawg kis lus mev nyob hauv 26.3 mais?
 - Interest (nqi tsub nyiaj paj), tax (se), unit price (tus nqi rau ib yam khoom), markups (cov nqi uas muab nce) & markdowns (cov nqi uas muab txo), tips (nyiaj pub) & commissions (nyiaj them thaum muag tau khoom)
Sandra yuav ib phau ntawv uas tus nqi yog 25% tsawg tshaj tus thaum xub thawj. Yog nws them \$16.50, tus nqi thaum xub thawj yog npaum li cas?
- Ⓐ Nkag siab cov **rational numbers**, kev muab sib piv, & kev muab cov lej tso rau ntawm ib cov kab sib tshuam. Siv **order of operations (cov lus qhia hais tias yuav ua yam lej twg ua ntej)** coj ua cov lej rational numbers uas yog lej sib ntxiv, lej nrho, lej suav ua npaug, & lej sib faib
- Ⓐ Siv **algebraic properties** coj los sau & coj los pauv cov **equivalent expressions**. Soj ntsuam cov expressions uas muaj rational numbers, **absolute values**, & whole number **exponents**

$$\frac{1}{3} (2x-5)^2 \text{ at } x = 5$$

- Ⓐ Siv **equations & inequalities** cuam tshuam rau variables & cov **rational numbers** uas yog positive & negative coj los ua cov lej uas niaj hnub siv

Miguel ua rau ib thawv kua mis vau & ua ntej nws tsa tau thawv kua mis, 3 khob kua mis twb nchuav tag lawm. Thaum Miguel muab cov kua mis uas tseem tshuav nyob hauv lub thawv hliv tag rau hauv ob lub kho, ib lub khob twg muaj 3/4 ntawm ib khob kua mis. Cov kua mis uas muaj nyob hauv lub thawv ua ntej ncuav yog ntau npaum li cas?

- Ⓐ Ua cov equations siv ob kauj ruam uas cuam tshuam rau cov rational numbers & exponents

$$x + 4\% = \frac{2}{3} \quad x = ?$$

- Ⓐ Ua cov lej siv haув lub neej uas cuam tshuam rau angel measures, area, **circumference**, & **volume**. Piav qhia txog cov formulas (qauv) uas lawv siv

- Ⓐ Siv lej statistics coj los kwv yees hais tias saib tag nrho yog muaj pes tsawg thaum muab ob peb qhov coj los soj ntsuam tag

- Ⓐ Nrhiav qhov **probability** (qhov ntxim yuav muaj) ntawm tej Yam simple (yooj yim) & compound (tej Yam uas muaj kev muab suav ua npaug), sau cov probabilities zoo li fractions (ua lej feem), decimals, thiab lej feem pua

Qhov probability (ntxim yuav muaj) ntawm kev co ib lub mam khaus laus (die) thiab tau "3" yeej yog ib qhov yooj yim (simple) thiab qhov ntxim yuav tau "3" yeej yog 1 ntawm 6 los sis $\frac{1}{6}$

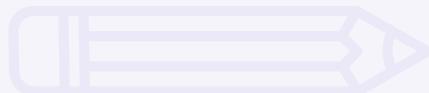


Qhov probability ntawm kev co ib lub mam khaus laus thiab tau "3" thiab kev muab ib lub nyiaj pov thiab tau phab "tails" (ko tws ntawm ib lub nyiaj npib) yeej yog ib qhov muaj kev suav ua npaug (compound) thiab qhov probability yog $\frac{1}{6} \times \frac{1}{2}$ uas yog $\frac{1}{6} \times \frac{1}{2}$ los sis $\frac{1}{12}$



&

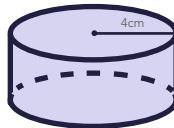




COV LEJ UA PIV TXWV RAU QIB 7

Hauv qab no yog ib cov lej ua piv txwv ntawm cov lej uas cov me nyuam kawm qib 7 yuav tau ua.⁴

1. **Qhov kev ntaus nqi ntawm 4^3 yog dab tsi**
2. **Ib tsawg tshaj ob npaug ntawm tus lej, x, yog 27. Sau ib qhov kev ua lej uas yuav muab siv tau coj los nrhiav x.**
3. **Qhov ntev & qhov dav ntawm daim duab uas muaj 8 nti dav thiab 12 nti ntev uas yuav muab txo ib qhov li 50%. Ces lawv mam li muab txo dua zaum ob li 25%. Qhov perimeter (txoj kab kхиav raws tus ntug ntawm daim duab) ntawm daim duab tshiab yog ntev li cas?**
4. **Which number is not rational?**
 - a.) %
 - b.) 0.39
 - c.) 3.3939
 - d.) 3.393993999....
5. **Muab qho lej ntawm $|x| = 3$ coj mus tso rau ntawm ib txoj kab teev lej.**
6. **Qhov deb ntawm ntug kev uas Jan taug tau nyob hauv 2 teev yog 18 mais ntau tshaj li qhov deb ntawm ntug kev uas nws taug tau nyob hauv 0.5 teev. Qhov deb ntawm ntug kev uas taug tau yog proportional (deb raws feem) rau lub sij hawm. Jan taug kev tau pes tsawg mais nyob hauv 2 teev?**
7. **The area of a cylinder is 175.8 cm^2**



What is the height of a cylinder? (Use 3.14 for π)

- a.) 2.3 centimeters
- b.) 3.0 centímetros
- c.) 3.5 centimeters
- d.) 4.5 centímetros

⁴Published items from the Minnesota Comprehensive Assessment. All rights reserved MDE
<https://education.mn.gov/MDE/dse/test/items/>

8. Ib tug xib hwb qhia ntawv siv 1 mus txog 100 coj los sau ua cov qhab nia sau txog ib phau ntawv ntawm ib txhia tub ntxhais uas kawm ntawv nyob hauv nws chav qhia ntawv.

95 75 88 82 60 89 95 73

Tus xib hwb qhia ntawv tshuav 1 tus qhab nia ntawm ib tsab ntawv sau txog ib phau ntawv uas nws tseem tsis tau muab sau khaws tseg. Tus qhab nia twg yog tus yuav ua kom tus qhab nia mean (tus qhab nia uas muab cov qhab nia suav ua kev coj los faib sib npaug zos) & tus qhab nia median yog tib tug?

9. Qhov kev ua lej twg yog qhov uas sawv cev ib qhov kev faib ua feem?

a.) $y = \frac{5}{x}$

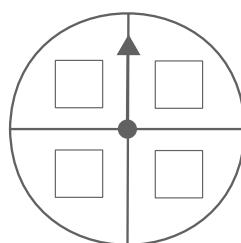
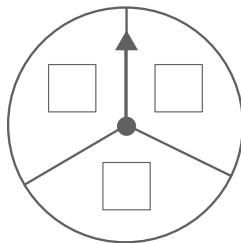
b.) $y = \frac{1}{6}x$

c.) $y = 3x + 1$

d.) x^2

10. Ib qhov kev ua si siv 2 yam khoom kiv uas muaj ib ntus liab (B), ib ntus liab (R), & ib ntus daj (Y). Qhov kev kwv yees seb ib yam khoom yuav tswm si uas yuav kiv tau ntu xiav nyob ntawm ob yam khoom tib si yog 1/6. Qhov probability uas yuav kiv tau ntu liab nyob ntawm ob yam khoom tib si yog 1/6. Txhua xim nyob ntus ntawm ob yam khoom kiv yog xim dab tsi? Sau B, R, los sis Y rau lub kem plaub fab uas yog lub siv rau xim ntawd.

B R Y





COV DEJ NUM NIAJ HNUB UA LOS MUS TXHAWB TXOJ KEV KAWM

• Nrog koj tus me nyuam kawm qib 7 sib tham hais txog cov lej uas nws ua tau. Dab tsis yog cov uas lawv tab tom kawm tshiab? Lawv puas muaj teeb meem dab tsi? Koj pab puas tau lawv?

- Thaum koj tus me nyuam kawm qib 7 xav kom koj pab nws ua cov ntawb ntawv uas nqa coj los kawm hauv tsev, nws cov lus nug uas yuav pab ua kom nws paub daws qhov teeb meem. Tsis txhob daws qhov teeb meem rau nws.
- Pab koj tus me nyuam kawm qib 7 nrhiav tej yam uas yuav pab nws kawm tau tej yam dab tsi. Hais kom koj tus me nyuam mus nrog nws tus xib hwb sib tham hais txog tej yam uas yuav pab tau, zoo li dej num rau nws xyau, muab sij hawm ntxiv, los sis nrhiav kev pab ntxiv.
- Hais kom koj tus me nyuam tham txog tej yam uas nws tab tom kawm & qhia saib nws pom tej yam ntawm no nyob ib ncig ntawm nws rau qhov twg. Piv txwv, nws pom cov lej me tshaj 0 (negative) nyob qhov twg uas tsis yog thaum lawv nyob hauv chav kawm ua lej?
- Coj koj tus me nyuam nrog koj mus yuav khoom. Hais kom nws muab cov nqi coj los sib piv los mus nrhiav qhov khoom uas tus nqi pheej yig tshaj. Hais kom nws kwv yees saib qhov se rau yam khoom ntawd yog yuav raug npaum li cas
- Nug koj tus me nyuam kawm qib 7 hais txog cov lej uas nws xav muab ua kom paub hais tias yog li cas. Nws puas siv tau cov lej ntawm no nyob ntawm nws txoj hauj lwm thaum nws muaj hnub nyoog lawm?
- Hais kom koj tus me nyuam kawm qib 7 mus tshawb fawb txog tej yam uas nws nyiam. Piv txwv, hais kom nws mus nrhiav 30 zaj nkauj nws nyiam mloog nyob hauv lub hlis no. Nrhiav saib qhov range (qhov ntev thiab luv), mean (qhov nruab nrab suav tag nrho ua ke), & mode (qhov muaj ntau zaj nkauj ntev ib yam) ntawm cov nkauj yog li cas
- Qhia koj tus me nyuam saib koj siv lej rau dab tsi nyob hauv koj lub neej txhua hnub

ANSWER KEY

1: 64; **2:** $2x - 1 = 27$; **3:** 15 inches; **4:** D: **3.** 393993999...; **5:** the points should be located at -3 & 3 and connected by a line; **6:** 24 miles; **7:** 3.0 centimeters; **8:** 85; **9:** $y=16x$; **10:** Answers may vary.



**TSWV YIM MUS NROG COV XIB
HWB QHIA NTAWV SIB THAM**

1. Koj muab kuv tus me nyuam qhov qhab nia xeem lej uas nyuam qhuav muaj tag los tsis ntev no puas tau rau kuv saib?
2. Cov tswv yim tseem ceeb uas cov me nyuam kawm qib 7 yuav kawm hais txog kev ua lej yog cov twg? Kuv tus me nyuam puas nkag siab cov lej uas muab rau nws kawm? Koj muab puas tau ib cov ntawv ua piv txwv coj los rau kuv saib?
3. Kuv tus me nyuam npaj li cas los ua ib qhov lej uas muaj cov kev ua lej nyuaj? Kuv yuav ua li cas es kuv thiaj li yuav pab tau nws thaum nws muaj cov teeb meem uas yuav daws tau nyuaj?
4. Kuv tus me nyuam yuav tsum tau nkag siab & paub tham hais txog dab tsi ntawm cov ntaub ntawv uas nws tau kawm?
5. Kuv tus me nyuam qhia puas tau rau koj hais tias nws nkag siab cov lej uas nws kawm tag? Yog nws qhia tsis tau, cov teeb meem uas nws muaj yog dab tsi? Kuv yuav ua li cas es thiaj li yuav pab tau nws?
6. Kuv yuav ua li cas es kuv thiaj li yuav pab tau & hais tau kom kuv tus me nyuam kawm qib 7 los mus sib zog rau nws txoj kev kawm?





*to taub txog
cov ntsiab lus*

Cov lus siv rau fab kev kawm

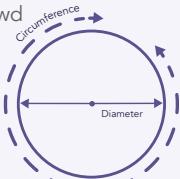
Cov xib hwb qhia ntawv yeej siv cov lus uas muaj ib cov ntsiab lus ua si nyob hauv cov tsev kawm ntawv. Nkag siab cov lo lus ntawd yuav pab koj mus nrog koj tus me nyuam tus xib hwb qhia ntawv sib tham.

ABSOLUTE VALUE (QHOV KEV NTAUS NQI NTAWM TUS LEJ)

Tus naj npawb nyob deb ntawm lub xoom (zero). Muab tus cim “l” tso rau ntawm ob sab ntawm ib tus lej coj los qhia hais tias yog qhov absolute value (qhov kev ntaus nqi ntawm tus lej), yog li ntawd, qhov absolute value ntawm x yog sau li $|x|$. $|4| = 4$ $|-5| = 5$

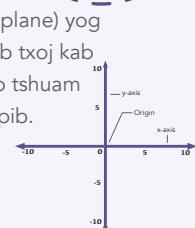
CIRCUMFERENCE (QHOV NTEV NTAWM TXOJ KAB KHIAV PUAG NCIG IB YAM KHOOM)

Circumference yog qhov ntev ntawm txoj kab khiav puag ncig ib yam khoom. Rau cov khoom uas muaj ntau sab, muab txhua sab ntawm yam khoom ntawd coj los siv ntxiv ua ke. Rau ib lub voj voos, circumference yog kev sib faib feem rau qhov diameter (qhov dav ntawm lub voj voos) li ntawm πpaug.



COORDINATE PLANE (IB PHAB DAB TSI UAS MUAJ KAB SIB TSHUAM)

Ib phab ntawv los sis ib phab dab tsi uas muaj kab sib tshuam (coordinate plane) yog ib phab ntawv uas muaj ib txoj kab teev lej khiav rov ntsug hu ua y-axis & ib txoj kab teev lej khiav rov tav hu ua x-axis. Cov kab ntawm no yog ib cov uas los sib tshuam los sis sib txiav nyog ntawm zero los sis xoom, & qhov no yog hu ua qhov pib.



DIGITAL FOOTPRINT (HNEEV TAW HAUVE KHOOM HLUAV TAWS XOB)

Cov lus muaj nyob hauv internet hais txog ib tus tib neeg thaum nws nkag mus ua ib yam dab tsi nyob hauv online. Qhov ntawm no yog muaj cov lus uas nws muab coj mus sau rau hauv social media, cov duab, cov khoom nws yuav & lus nws sau hais txog cov khoom ntawd nyob hauv online, cov passwords, cov kev mus tso npe txais xov xwm, los sis ib yam lus dab tsi & ntawt yam ntxiv.

EQUIVALENT EXPRESSIONS (LUS QHIA TXOG COV LEJ UAS MUAJ LEJ NTAUS NQI SIB NPAUG ZOS)

Equivalent expressions yog cov lus qhia lej uas ua tau cov lej zoo ib yam txawm hais tias yeej tsis zoo ib yam. Yog ob qhov expressions yeej ntaus nqj sib npaug zos, ob qhov expressions ntawd yeej muaj cov lej ntaus nqj sib npaug zos thaum peb muab ib cov lej zoo ib yam coj mus tso rau tus variable. Piv txww,
 $2x + x + x$ yog zoo ib yam li **$4x$** .

EQUATION (IB QHOV LEJ UAS MUAJ LEJ NYOB OB SAB SIB NPAUG ZOS)

Ib nqis lus ua lej uas muab ob Yam khoom dab tsi coj los tso hais tias ntaw sib npaug zos Ntau zaus, cov equations yeej muaj ib cov naj npawb uas tsis paub hais tias yog pes tsawg (hu ua variables) uas muab sau ua ib tus tsiaj ntawv. Piv txww: **$3b + 5 = 14$** .

**EXONENT (TUS LEJ NYOB SAUM TOJ NTAWM IB TUS IB SAB UAS QHIA HAIS
TIAS YUAV MUAB TUS LEJ NTAWD SUAV UA PES TSAWG NPAUG)**

Ib tus exponent yog hais txog tus lej uas qhia hais tias yuav muab ib tus lej suav ua pes tsawg npaug.

EXPRESSION (LUS QHIA TXOG IB QHOV LEJ)

Naj npawb, cov cim, & cov cim ua lej (zoo li + & ÷) uas muab lej tso ua ke los qhia hais tias ib yam dab tsı ntaus nqi npaum li cas. Piv txwv **y + 4** yog ib cov lus qhia, & **3 - x/z** los kuj yog ib cov lus qhia.

FIGURATIVE LANGUAGE (LUS SIV TXAWV COV LUS TXHAIS NTAWM LO LUS LOS SIS PAJ LUS)

Ib lo lus siv txawv cov lus txhais ntawm lo lus ntawd yeej siv txoj kev siv lus txawv uas yuav ua rau nqis lus zoo mloog, hais tau zoo, & muaj kuab. Piv txwv: "My dog's coat is as black as coal (Kuv tus dev cov plaub yeej dub npaum nkaus li cov ncaig thee)." "She is feeling blue (Nws pom xim xiav hauv nws txoj kev xav)." "He fought with the strength of a lion (Nws siv lub zog ntawm ib tus tsov ntxhuav los mus tawm tsam)." Cov me nyuam kawm qib 7 yuav tsum siv cov lus nyob ib ncig ntawm ib lo lus coj los txiav txim saib ib qhov paj lus yog txhais li cas thiab yuav tsum paub hais tias qhov no yeej txawv cov lus txhais ntawm cov lo lus.

LEXILE (QHOV KEV NTSUAS TXOJ KEV PAUB NYEEM NTAWV)

Ib qhov kev ntsuas muaj theem uas cov tub ntxhais kawm ntawv, cov xib hwb
ghia ntawv, & cov niham txiv nyiam muab siv coi los ghia ob yam:

- 1) Txoj kev paub nyeeem ntaww ntawm ib tus tub ntxhais kawm ntaww
 - 2) Qhov nyuai ntawm cov ntawy

Ntau zaus, koj yeej nrhiau tau tus naj npawb Lexile nyob rau ntawm phab ntawv tom qab ntawm phau ntawv los sis yog koj siv lub npe ntawm phau ntawv coj mus nrhiau ntawm www.lexile.com

Coy theem | exile uas haum rau qib ntawy:

Oib 6-8 theem 925-1185

ORDER OF OPERATIONS (QHOV HAIS TIAS YUAV UA COV LEJ TWG UA NTEJ)

Order of operations yog cov lus tswj uas qhia peb hais tias peb yuav tsum ua qhov lej twg ua ntej thaum ib qhov expression muaj ntau kauj ruam. Qhov qhia hais tias yuav ua qhov twg ua ntej yog muab tso ua PEMDAS kom nco tau yooj yim:

- 1) Parentheses
- 2) Exponents
- 3) Multiplication (Lej Suav Ua Npaug) & Division (Lej Sib Faib) ntawm laug mus rau pab xis
- 4) Addition (Lej Sib Ntxiv) & Subtraction (Lej Rho) ntawm phab laug mus rau phab xis

KEV MUAB COV NTAWV UAS YOG LWM TUS NEEG SAU COJ LOS UA TUS KHEEJ COV NTAWV

Kev muab lwm tus neeg cov ntawv los sis tswv yim coj los ua koj li.

PROPERTIES OF ALGEBRA (COV LUS TSWJ KEV UA LEJ ALGEBRA)

Properties of algebra qhia cov kev uas yuav muab naj npawb coj los tso tau ua ke. Nyob hauv qib 7, cov tub ntxhais kawm ntawv yuav tsum paub siv associative, communicative, & distributive properties of algebra.

| Property (Lus Tswj) | Explanation (Lus Piv Qhia) | Example (Ua Piv Txawv) |
|---------------------|--|---|
| Associative | Kev pauv cov lej nyob ua ke hauv parentheses uas koj muab sib ntxiv yeej tsis pauv qhov uas muab suav tag nrho ua ke Kev pauv cov lej nyob ua ke hauv parenthese uas koj muab suav ua npaug yeej tsis pauv qhov muab suav tag nrho ua ke | $(-3 + 5) + 2 = 4$ ib yam li a -3 + (5 + 2) $(3 \times 5) \times -2 = -30$ ib yam li a -3 \times (5 \times -2) |
| Commutative | Kev pauv qhov hais tias yuav muab cov lej twg sib ntxiv ua ntej yeej tsis pauv qhov uas muas suav tag nrho ua ke Kev pauv qhov hais tias yuav muab cov lej twg suav ua npaug ua ntej yeej tsis pauv qhov uas muab suav tag nrho ua ke | $3 + 5 = 8$ ib yam li 2 + 3 = 5 $3 \times 5 = 15$ ib yam li 5 \times 3 = 15 |
| Distributive | Yog thaum twg koj muab ib tus lej suav ua npaug nrog ib cov lej sib ntxiv nyob hauv parentheses, koj yeej muab tus lej ntawd suav ua npaug nrog cov lej nyob hauv parentheses ib tus zuj zus tag & mam li muab sib ntxiv los tau $a(b + c) = ab + ac$ | $5(3 + 2) = 25$ $5 \times 3 + 5 + 2 = 25$ $15 + 10 = 25$ |

PROPORTIONAL RELATIONSHIPS (COV KEV SIB CUAM TSHUAM NTAWM IB COV LEJ)

Ib qhov kev sib cuam tshuam nyob ntawm ob tus lej txawv nyob hauv ib cov lej uas ib tus lej yeej yog tus tsis pauv ntawm lwm tus lej. Piv txawv, txhua tus ntsaum yeej muaj 6 phab kav ceg, yog li ntawm, nyob hauv ib lub zes ntsaum, tag nrho cov kav ceg suav ua ke yog rau npaug ntawm tag nrho cov ntsaum suav ua ke. Yog li ntawd, qhov hais tias muaj pes tsawg txhais kav ceg yeej proportional rau qhov hais tias muaj pes tsawg tus ntsaum.

PROBABILITY (QHOV NTXIM YUAV MUAJ TSHWM SIM TAU)

Qhov uas ib yam dab tsi ntixim yuav tshwm sim tau. Probability yog ib yam uas muab sau ua decimal los sis fraction (lej feem) li ntawm 0-1 los sis ua feem puas li ntawm 0-100%. Piv txwv, qhov probability ntawm kev muab ib lub nyiaj cuam rau saum ntuj poob los & kom ntxeev rau phab "tails" yog .5, 1/2, los sis 50%.

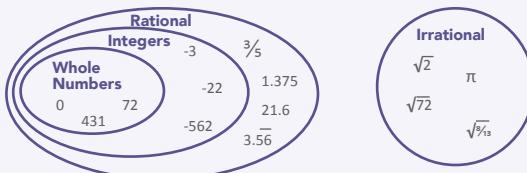
$$\frac{\text{Probability of Event}}{\text{Number of times it can occur}} = \frac{\text{Total number of possible outcomes}}{\text{}}$$

RATIONAL NUMBERS (COV LEJ UAS YUAV MUAB SAU TAU UA LEJ FEEM UAS TUS LEJ HAUV QAB TSIS YOG XOOM)

Ib tus rational number yog ib tus lej uas yuav muab sau tau ua lej feem (fraction) ntawm ob tus lej. Ib tus irrational number yog ib tus lej uas yuav muab ua lej feem tsis tau. Yog ib tus lej muaj decimal uas nws yeej tsis muaj qhov kawg li & nws yeej tsis muaj cov qauv uas rov qab muaj li, tus lej ntawd yog ib tus lej irrational.

READING LEVEL (THEEM NTAWM TXOJ KEV NYEEM NTAWW)

Cov xib hwb qhia ntawv yeej ib txwm ntsuas saib ib tus tub ntxhais kawm ntawv paub nyeem ntawv txog theem twg, uas yog siv ib tus tsiaj ntawv los sis ib tus naj npawb coj los qhia. Qhov no yuav pab qhia cov xib hwb qhia ntawv hais tias saib dab tsi yog cov uas cov tub ntxhais kawm ntawv tseem yuav tsum tau kawm. Tiam sis muaj tej lub sij hawm, cov xib hwb qhia ntawv tsuas pub cov me nyuam nyeem cov ntawv nyob rau theem ntawd xwb. Ceev faj txog qhov kev yuav kom cov me nyuam nyeem ntawv zoo li no. Yuav tsum tsis txhob txww kom cov me nyuam tsuas nyeem tau cov ntawv haum los sis qis dua rau lub hom phiaj ntawm qib ntawv lawv kawm xwb.



READING LEVEL (THEEM NTAWM TXOJ KEV NYEEM NTAWW)

Cov xib hwb qhia ntawv yeej ib txwm ntsuas saib ib tus tub ntxhais kawm ntawv paub nyeem ntawv txog theem twg, uas yog siv ib tus tsiaj ntawv los sis ib tus naj npawb coj los qhia. Qhov no yuav pab qhia cov xib hwb qhia ntawv hais tias saib dab tsi yog cov uas cov tub ntxhais kawm ntawv tseem yuav tsum tau kawm. Tiam sis muaj tej lub sij hawm, cov xib hwb qhia ntawv tsuas pub cov me nyuam nyeem cov ntawv nyob rau theem ntawd xwb. Ceev faj txog qhov kev yuav kom cov me nyuam nyeem ntawv zoo li no. Yuav tsum tsis txhob txww kom cov me nyuam tsuas nyeem tau cov ntawv haum los sis qis dua rau lub hom phiaj ntawm qib ntawv lawv kawm xwb.

TEXT COMPLEXITY (QHOV NYUAJ NTAWM COV NTAWV)



Ib qhov kev ntsuas hais tias saib ib cov ntawv nyuaj npaum li cas. Qhov nyuaj ntawm cov ntawv yeej yog muaj ntau ntau Yam nyob hauv. Txoj kev muab cov lo lus coj los tso ua ib nqis lus & txoj kev xaiv cov lo lus yeej ua tau kom cov ntawv nyuaj tuaj. Ib cov ntawv yeej nyuaj dua yog cov neeg nyeem yuav tsum tau muaj txuj ci ntau ntxiv es lawv thiaj li yuav nkag siab hais tias yog txhais li cas, los sis yog cov ntawv yeej muaj ib cov lus txhais uas nyuaj.

THESIS STATEMENT (NQIS LUS QHOV TSEEM CEEB NTAWM IB COV NTAWV)



Ib nqis lus thesis statement yog ib los sis ob nqis lus uas muab lub tswv yim tseem ceeb nyob hauv cov ntawv coj los sau ua lus hais luv luv.

VARIABLE (TUS TSIAJ NTAWW SAWV CEV IB TUS LEJ UAS TSIS PAUB HAIS YOG PES TSAWG)



Ib tus variable yog ib tus tsiaj ntawv uas muab siv coj los sawv cev ib tus naj npawb uas tsis paub hais tias yog pes tsawg nyob hauv ib qhov equation (ib qhov lej uas muaj lej nyob ob sab sib npaug zos los sis ib qhov math expression (ib cov lus qhia txog lej). Neeg yeej siv ib lub cim coj los tso ua cov variables (feem ntau yeej yog ib tus tsiaj ntawv).

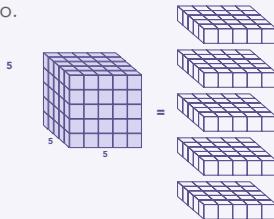
$$2x + 1 = 9$$

|
variable

VOLUME (QHOV DAV HAUV NRUAB NROG NTAWM IB YAM KHOOM)



Lub chaw uas ib yam khoom muaj 3 seem yuav los ntiis tau. Volume qhia rau peb hais tias peb yuav siv khoom ntau npaum li cas es peb thiaj yuav ntim puv ib yam khoom. Piv txwv, qhov dej uas koj yuav tsum tau siv coj los ntim kom koj ib lub hwj dej puv. Peb muab qhov volume ntawm ib yam khoom ntsuas ua xim fab xim meem zoo li cubic centimeters, cubic inch, cubic foot, cubic meter, tej yam zoo li no.



LUS QHIA HAIS TIAS MUAB QHOV TWG LOS

Minnesota Department of Education Academic Standards <https://education.mn.gov/mde/dse/stds/>

Seek Common Ground Family Guides <https://seekcommonground.org/family-guides>

Math Milestone Grade Level Grids <https://www.mathmilestones.org/gradelevel-grids>



NTAWV CEEB TOOM

Handwriting practice lines for the text "NTAWV CEEB TOOM".



great

MN
SCHOOLS

Great MN Schools yog lub chaw muab cov lus qhia ntawm no rau koj siv, uas yog ib lub koom haum nyob ze ntawm no uas tsis ua lag luam. Yog xav paub ntxiv & xav muab nyiaj mus pab, mus rau ntawm greatmnschools.org.

Qhia rau peb hais tias
saib koj muab cov lus qhia
ntawm no coj mus siv li cas!



XOO KUV