### Reading Passage 1

The Great Wall of China

#### Instructions: Read the passage and answer the questions that follow.

Walls and wall building have played a very important role in Chinese culture. These people, from the dim mists of prehistory have been wall-conscious; from the Neolithic period – when ramparts of pounded earth were used - to the Communist Revolution, walls were an essential part of any village. Not only towns and villages; the houses and the temples within them were somehow walled, and the houses also had no windows overlooking the street, thus giving the feeling of wandering around a huge maze. The name for "city" in Chinese (ch'eng) means wall, and over these walled cities, villages, houses and temples presides the god of walls and mounts, whose duties were, and still are, to protect and be responsible for the welfare of the inhabitants. Thus a great and extremely laborious task such as constructing a wall, which was supposed to run throughout the country, must not have seemed such an absurdity.

However, it is indeed a common mistake to perceive the Great Wall as a single architectural structure, and it would also be erroneous to assume that it was built during a single dynasty. For the building of the wall spanned the various dynasties, and each of these dynasties somehow contributed to the refurbishing and the construction of a wall, whose foundations had been laid many centuries ago. It was during the fourth and third century B.C. that each warring state started building walls to protect their kingdoms, both against one another and against the northern nomads. Especially three of these states: the Ch'in, the Chao and the Yen, corresponding respectively to the modern provinces of Shensi, Shanzi and Hopei, over and above building walls that surrounded their kingdoms, also laid the foundations on which Ch'in Shih Huang Di would build his first continuous Great Wall.

The role that the Great Wall played in the growth of Chinese economy was an important one. Throughout the centuries many settlements were established along the new border. The garrison troops were instructed to reclaim wasteland and to plant crops on it, roads and canals were built, to mention just a few of the works carried out. All these undertakings greatly helped to increase the country's trade and cultural exchanges with many remote areas and also with the southern, central and western parts of Asia – the formation of the Silk Route. Builders, garrisons, artisans, farmers and peasants left behind a trail of objects, including inscribed tablets, household articles, and written work, which have become extremely valuable archaeological evidence to the study of defense institutions of the Great Wall and the everyday life of these people who lived and died along the wall.

Chinese cities resembled a maze	
because they were walled.	
because the houses have no external windows	
because the name for cities means 'wall'.	
because the name for cities means wan.	
because walls have always been important there.	
The Great Wall of China	
Constructing a wall that ran the length of the country	
honored the god of wall and mounts	
was an absurdly laborious task	
was all absultily laborious task	
may have made sense within Chinese culture	
made the country look like a huge maze	
The Great Wall of China	
The Great Wall of China	
was built in a single dynasty.	
was refurbished in the fourth & third centuries BC.	
mas retarbished in the router of third centuries be.	
used existing foundations.	

The G	Great Wall of China
Crops	were planted
10	n a wasteland
to	reclaim wasteland
10	n reclaimed wasteland.
al	ong the canals.
The G	Great Wall of China
Choose	e the INCORRECT statement
S	ettlements established along the border greatly helped grow Chinese economy.
TI	ne Ch'in, the Chao and the Yen built the wall to protect themselves from the Nomads
TI	ne trail of objects left behind by builders, garrisons and farmer were later considered valuable evidence
TI	ne Great Wall is very complex structure that was built over centuries

### Reading Passage 2

Instructions: Read the passage and answer the questions that follow.

was built by the Ch'in, the Chao and the Yen.

It was only minus 28 degrees Celsius when we landed in Irkutsk. But that was cold enough to make breathing an effort - the air felt like ice as it scraped the back of my throat. Five minutes later, I needed a second pair of gloves and pulled my scarf tight over my nose and mouth. I was obviously a beginner at this.

At the petrol station, Mikhail the attendant laughed when we asked if he wasn't freezing. He'd spent the whole day outside with no more than his fur hat and a sheepskin coat for warmth. It was mid-afternoon and icicles were hanging from his moustache like Dracula's fangs. He said he never drank to stay warm - unlike many others.

### Vodka

There's a belief in Siberia that enough vodka will insulate you from the cold. It's been proved tragically wrong in the past few weeks. Dozens of bodies of the homeless or men walking drunkenly back from the pub were hauled out of the snowdrifts, frozen or so badly frost-bitten that many will never walk again.

The local hospital in Irkutsk is overwhelmed. Ironically, it's the burns unit that's taken all the frostbite victims - 200 of them in just two weeks in one town. Even here, icicles are hanging down on the inside of the windows, though the heating is on full power. The doctor was too busy performing amputations to talk to us.

### Shortages

But we could hear the screams from the operating room. They'd run out of anesthetic after performing 60 amputations that week. The other patients could hear it too, and one girl in the corridor, clinging to her mother for support, was near to tears.

Nastya is only 16. Last week she missed her last bus home, so she walked instead - seven kilometers through the snow, in temperatures of minus 40. She had no gloves. Now her hands are bandaged and hang down uselessly. She'll find out soon if they need to be amputated.

She was far from the worst case. In one bed, Nikolai Dobtsov lay quietly staring at the ceiling. Underneath the sheets, blood was seeping through his bandages, from where his feet and hands had been amputated the day before. He was a truck driver, he explained, with a good job delivering wood - and recently there'd been a lot of demand. So he'd set out to deliver a last load upcountry. The weather forecast - just minus 25 in Irkutsk - seemed to suggest that the journey was safe. It wasn't. His truck broke down miles from anywhere, and for 6 desperate hours he fought to repair the axle. He even greased his hands for protection, and finally managed to get the truck going again. Somehow he found the strength to drive himself back and straight to hospital, but it was already too late.

I asked Nikolai what would happen to him now. He just laughed, and shrugged. Nikolai has no wife or family in Irkutsk - and invalidity benefit is a pittance. Life in an institution may be the best he can hope for, and he'll almost certainly never work again.

### Resilience

That incredible stoicism is everywhere. In Irkutsk at least, people seem simply to accept that winter is harsh - and this one especially so. It is without doubt the cruelest Siberian winter in living memory. Yet outdoors, everything appears to function normally - even schools re-opened as the temperature rose briefly to minus 25.

The trams and buses are back on the roads, though everyone drives slowly to avoid skidding on the layers of ice below the grit. The main street bustles with people wrapped in layers against the cold. But even indoors, the chill is inescapable. After her shift as a tram conductor, Natasha Fillipova comes home to a freezing house. She shows us the bedroom - where ice has built up on the inside walls. She scrapes it off with her fingers, but that has little effect. One night, Natasha says, she washed her hair before going to bed. When she woke up, it was frozen solid to the wall. The children are doing their homework in the bathroom - the only room warm enough to sit in. Natasha doesn't want to complain. But she is angry with the state and the architects for building shoddy houses.

The flats here are supposed to withstand up to minus 40 degrees. They don't, and her children are ill with coughs and colds. Natasha's anger is brief, and she seems faintly embarrassed about it. Siberians are used to cold weather, she explains. Here, she tells us, people prefer to rely on themselves - and the knowledge that eventually, spring will come.

### Reading Passage

What is implied in the last paragraph?

	The flats are of poor quality and do not provide enough insulation from the cold weather
	Section of the section of the provide change instruction from the cold weather
	Natasha is embarrassed about the fact that she can't provide for her children
	The children's health is negatively affected by the architects' poor work ethics
	Siberians passively endure through the winter on the thought that spring will come eventually
Rea	ding Passage 2
Nha	t do we learn in the opening paragraph?
	The author isn't accustomed to cold weather
	The author wished he had another scarf
	The author arrived by a bus
	Irkutsk is a city in Western Russia
Rea	ding Passage 2
Nha	t is the local theory about vodka?
	If you drink enough, it will help you get hauled out of snowdrifts
	If you don't drink, you might never walk again
	O  The legal begained in avanuable and with victims of alcahol relication.
	The local hospital is overwhelmed with victims of alcohol poisoning
	Ingesting a certain amount of vodka would help stay warm
Rea	ding Passage 2
Nha	t is implied about the hospital?
	It is too warm inside
	They are short on supplies and equipment
	The staff did not want to talk to journalists
	All frost-bite victims have to get amputated
	All Host-bite victims have to get amputated
Rea	ding Passage 2
	t is going to happen to Nastya?
	O
	She is going to cling to her mother for support
	She is going to miss the bus
	0
	She will get her hands amputated
	The doctors will tell her if her hands would heal on their own
Qρ:	ding Passage 2
10۱۱۰	ose the INCORRECT statement
	Nikolai used to deliver wood, for which the demand was high
	O
	Minus 25 Celsius is deemed safe for truck drivers

Nikolai laughed and shrugged, implying that he was happy to be admitted at the hospital
0
Greasing one's skin is one way to protect from frostbites
Reading Passage 2
he word 'stoicism' in paragraph 9 can best be replaced with
0
altruism
ignorance
0
nihilism
0
endurance
Reading Passage 2
lats in Irkutsk
don't have separate bathrooms
were built by private companies for profit
0
are too cold when the outside temperature reaches below -40C
0
cause health problems

### Reading Passage 3

#### Instructions: Read the passage and answer the questions that follow.

Under an American flag and dark night sky, US President Donald Trump personally welcomed home three American detainees Thursday morning after they were released from North Korea.

The Americans -- Kim Dong Chul, Kim Hak-song and Kim Sang Duk, also known as Tony Kim -- were freed Wednesday while Secretary of State Mike Pompeo was on a visit to the North Korean capital of Pyongyang to discuss President Trump's upcoming summit with North Korean leader Kim Jong Un.

No family members or friends of the three freed Americans were on hand for their arrival in the early hours of Thursday due to protocol reasons, an official told CNN, adding the men had to first debrief intelligence officials before heading to their homes.

Speaking to the media on the tarmac at Joint Base Andrews Air Force Base, Kim Dong Chul said his release felt "like a dream."

"We are very, very happy," said Kim.

President Trump, who was accompanied by his wife Melania, told waiting reporters it was "nice" of the North Korean leader to release the three men ahead of their planned summit.

"Frankly, we didn't think this was going to happen ... it's a very important thing to all of us to be able to get these three great people out" he said.

Trump also said he wanted to pay his "warmest respects" to the family of Otto Warmbier, the American who was released by the North Koreans in a vegetative state, only to die days later.

After their meeting with Trump, the three men were expected to go to the Walter Reed Medical Center in Maryland for further evaluation and medical treatment, according to White House Press Secretary Lindsay Walters.

After addressing the return of the three American detainees, Trump was asked about the prospects of making a deal with the North Korean leader.

"I really think he wants to do something and bring his country into the real world," Trump said.

"I think this will be a very big success. It's never been taken this far, there's never been a relationship like this."

Trump has previously said the release of the three men was part of working towards the denuclearization of the Korean Peninsula.

"Some great things can happen, and that's what we hope," he added.

Vice President Mike Pence and his wife Karen Pence were also on hand to welcome the three men home.

Joking with reporters, Trump said the three men's arrivals had probably broken "the all-time in history television rating for three in the morning."

The US President had earlier said on his Twitter it would be "quite a scene" when the detainees arrived in Washington.

Rumors had swirled for days around the possibility North Korea might release the three Americans ahead of the summit, especially once Pompeo's visit to Pyongyang was revealed.

Trump had demurred on how likely their return was, telling reporters on Tuesday "we'll all soon be finding out." "It would be a great thing if they are," he added.

The three former detainees issued a joint statement on Wednesday thanking Trump for their release. "We would like to express our deep appreciation to the United States government, President Trump, Secretary Pompeo, and the people of the United States for bringing us home," the trio said.

While both South Korea and Japan welcomed the news of the Americans' release, the two countries are still waiting for word on their own citizens held or abducted by North Korea.

In a statement Wednesday, South Korean government spokesman Yoon Young-chan called again for Kim Jong Un to release the six South Koreans still held by the North.

Japanese Prime Minister Shinzo Abe has repeatedly pushed for Trump to raise the issue of repeated abductions of Japanese citizens by North Korea in his upcoming meeting with Kim Jong Un. More than a dozen abductees still remain missing, according to the Japanese government.

CNN reported Wednesday that administration officials have been instructed to move forward with plans to convene that meeting in <u>Singapore, according to two people familiar with the plans.</u>

Trump officials prepare for Singapore summit with North Korea

Trump said on Wednesday he would announce the location and the timing of the summit in three days time, after repeatedly teasing the meeting date had been set. The two leaders are expected to meet sometime in June.

It will be the first meeting ever between a sitting US President and a North Korean leader, with both men meeting to discuss denuclearization of the Korean Peninsula.

Other locations had been under discussion, including Mongolia and the Korean demilitarized zone (DMZ), but experts said Singapore's neutral but opulent setting was likely to work in its favor.

It comes less than two months after a historic summit between Kim Jong Un and South Korean President Moon Jae-in on April 27 in the DMZ, where Kim became the first North Korean leader to set foot in the South since 1953.

The White House Wednesday said they viewed the action to release the Americans as a "gesture of good will."

Reading Passage 3	
Who is Tony Kim?	
O O	
Kim Dong Chul	
rum bong ena.	
0	
Kim Hak-Song	
0	
Kim Jong Un	
0	
None of the above	
Reading Passage 3	
What was Secretary of State of	loing while the three men were welcomed by President Trump?
0	
Accompanying the Presid	ent in welcoming the released men
0	
Speaking to the journalis	ts, giving information on why the released men's family is not allowed on their arrival
0	
Was on a diplomatic miss	ion to the Korean peninsula
0	
Was reporting on duty at	Joint Base Andrews Air Force Base
Reading Passage 3	
What does the word 'Frankly'	mean in Paragraph 7?
0	
Truthfully	
0	
Belonging to Frank	
0	
Ambiguously	
0	
Clearly	
Reading Passage 3	
	at time the event was televised?
0	
3:00AM	
O 15:00	
15:00 ○	
3:00PM	
3:00PM	
Noon	

Rea	ading Passage 3
Whi	ch of the following is a correct statement
	Trump gave the press briefing on the location and date of the summit
	Shinzo Abe is pushing Donald Trump to address the issue of whaling in South China Sea
	South Korea is yet to have their abductees released
	The intelligence agency interrogated the released men's family members
Do:	ading Passage 3
Whi	ch of the following is not a correct statement?
	O North Kouses lands Kin II Gura had avasad the DM7
	North Korean leader Kim Il-Sung had crossed the DMZ
	Singapore is most likely to be chosen as the venue for the summit between the two leaders
	Shingapore is most likely to be chosen as the vehice for the summit between the two leaders
	Mongolia is highly unlikely to be chosen as the venue of the summit along with the DMZ
	O
	The U.S. and North Korea have reached an agreement and the U.S. administration is coming up with plans
Rea	ading Passage 3
	at does the word 'opulent' mean?
	sparse
	affluent
	impoverished
	dense
Rea	ading Passage 3
Bas	ed on the content of this article, which of the following is NOT true about the release of the three men?
	It is seen as a friendly gesture from the North Korean side
	It means that South Korea and Japan will soon get their own abducted citizens released by North Korea
	President Trump expected "quite a scene" at the arrival of the detainees
	It is a solid stepping stone for the much-anticipated Kim-Trump summit
т	the fellowing according to the condition to the best several to the contents
	the following exercises, choose the word that best completes the sentence.
Foot	ball is than tennis
	most popular
	popularer
	O more popular
	more popular  O
	more

In the following exercises, choose the word that best completes the sentence.
the deepest valley and canyons on the earth.
In the Pacific Ocean with
0
In the Pacific Ocean
0
The Pacific Ocean
0
The Pacific Ocean has
In the following exercises, choose the word that best completes the sentence.
In the United States, the participation of females in the labor force from 37 percent in 1965 to 51 percent in 1980.
0
it jumped
jump
jumped
jumping
In the following exercises, choose the word that best completes the sentence.
Most cells in multicellular organisms perform functions.
specialize in
specialized
they specialize
specialization
In the following exercises, choose the word that best completes the sentence.
The big island of Hawaii, in the middle of the Pacific Ocean, by five volcanoes.
creation  O
it was created
it was treated
created
O
was created
na crates
In the following exercises, choose the word that best completes the sentence.
Although knives and forks of prehistoric origin, spoons are relatively new.
O
are
they are
that are
which are
In the following exercises, choose the word that best completes the sentence.
Researchers have long debated about moon Titan contains hydrocarbon oceans or lakes.
Saturn's

whether it is Saturn's	
0	
whether Saturn's	
0	
whether Saturn is a	
mediei setam s t	
In the following exercises, choose the word that best completes the sentence.	
When the conference?	
0	
the doctor attended	
0	
did the doctor attend	
0	
the doctor will attend	
0	
the doctor's attendance	
the doctor's attendance	
In the fellowing everying, change the word that best completes the contents	
In the following exercises, choose the word that best completes the sentence.	
The Brooklyn bridge in New York thirteen years to complete.	
0	
took	
0	
have taken	
0	
taken	
0	
had took	
ndu took	
In the following eversions, change the word that host completes the contents	
In the following exercises, choose the word that best completes the sentence.	
The use of shorthand died out in the Middle Ages because of with witchcraft.	
0	
the association was imagined	
0	
associate the imagination	
0	
imagine association	
0	
the imagined association	
the imagnica association	
To the fellowing consists should be the word that heat consult to the continue	
In the following exercises, choose the word that best completes the sentence.	
A yacht is steered with a rudder, the flow of water that passes the hull.	
0	
which deflecting	
0	
deflected	
0	
it deflects	
0	
which deflects	
which defects	
In the following evergines, change the word that best completes the sentence	
In the following exercises, choose the word that best completes the sentence.	
Indigo can be extracted from a plant, and then to dye cloth blue.	
0	
it	
0	
using	
0	
it can be used	

can be used
In the following exercises, choose the word that best completes the sentence.
Genes control all of the physical we inherit.
that traits
traits that
0
traits that are
0
traits were
In the following exercises, choose the word that best completes the sentence.
To prevent household fires, all flammable liquids, oily rags, and other materials should be properly disposed of.
combustible
unctuous
restricted
extinguishable
In the following exercises, choose the word that best completes the sentence.
Because Jenkins neither nor defends either side in the labor dispute, both parties admired his journalistic
criticizes, vitality
attacks, neutrality
confronts, aptitude
O O
dismiss, flair
In the following exercises, choose the word that best completes the sentence.
If it is true that morality cannot exist without religion, then does not the erosion of religion herald the of morality?
regulation
0
belief
collapse
0
kindle
In the following exercises, choose the word that best completes the sentence.
The stoic former general led his civilian life as he had his military life, with simplicity and dignity.
0
austere
informal
0
succinct
benevolent
In the following exercises, choose the word that best completes the sentence.

Certain animal behaviors, such as mating rituals, seem to be, and therefore external factors such as climate changes, food supply, or the presence of other animals of the same species.
O
innate, unaffected by
learned, immune to
intricate, beleaguered by
specific, confused with
In the following exercises, choose the word that best completes the sentence.
After just one hour of study, Tyler unrealistically expected a rise in his test scores, and was reluctant to work longer hours for steady, score improvement
repetitive, swift
sudden, gradual
steep, rapid
significant, interminable
Select the correct phrase
For the following exercises, part of each sentence or entire sentence is underlined; beneath each sentence are five ways of phrasing the underlined
material. Select the best answer among the choices given.
Select the correct phrase
.  Laura Southworth, a children's author who is beginning to attract the notice of critics and librarians alike, wrote and illustrated her first story 'Tika' and she was only seve
years old then.
and she was only seven years old then
at age seven years old only
when she was only seven years old
at the time she was only seven
Select the correct phrase
The ancient belief of all matter being in continuous motion seems borne out by modern discoveries about atomic structure.
of all matter being in continuous motion
is that all matter is in continuous motion
that all matter is in continuous motion
of all matter that is in continuous motion
Select the correct phrase
When preparing to write a research paper, you should gather information from books, periodicals, and the Internet, and your documenting of sources should be carefully done.
O
and your documenting of sources should be carefully done
and your documenting or sources should be carefully done
and document your sources carefully
and you should document your careful sources

because your sources need to be documented carefully
Select the correct phrase
Weather vanes range in style from the practical to the fanciful, but in the end its purpose is still the same: to point out the direction of the wind.
its purpose is still the same
their purpose being the same
they all share the same purpose
the purpose is the same for every on of them
Select the correct phrase
Or. Kornstein's colleagues considered him not only a great surgeon but also <u>being an inspiring teacher of</u> innovative surgical techniques.
O being an inspiring teacher of
O having inspired the teaching of
having inspired the teaching of
with inspiration teaching  Oan inspiring teacher of
Select the correct phrase  The crash of Mars Climate Orbiter was caused by a lack of training among the members of the navigation team and failing to use metric units in the coding of the software.
0
failing to use metric units
a failure to use metric units
because of the failure to use metric units
by people which failed to use metrics units
Select the correct phrase
Better known for 'The Foreigner', Larry Shue also created other works, such as 'The Nerd', that were of equal quality even though they were less famous.
C Larry Shue also created other works, such as 'The Nerd', that
O other works by Larry Shue, such as 'The Nerd'
$\circ$
Larry Shue's other works, like 'The Nerd'
Larry Shue wrote other stories, like 'The Nerd', that
Grammar  The following exercises test your ability to recognize grammar and usage errors. Select the best answer among the choices given.
Grammar
When my sister and me visited the eulogized city of Troy, we noticed it was much smaller than the epic tales had suggested.
O me

eulogized
than
tales
Grammar
Of all the jingoists in the country, that politician, known for his fanatical patriotism, appears to be the more dangerous.
0
in the country
politician
0
appears
0
more
Grammar
Before handing in her assignment, Michelle checked all of her sources twice; her greatest fear being receiving any grade lower than a B.
Before
in her
checked
being
Grammar
Dentists <u>agree</u> that <u>brushing</u> your teeth three times a day <u>promote</u> a good dental health and a <u>more attractive</u> smile.
agree
0
brushing
0
promote
0
more attractive
Grammar
I <u>choose</u> to carry my necessities in my pockets, <u>and</u> most other women <u>prefer to use</u> purses.
0
choose
0
and
0
prefer
O to use
Grammar
Complete exhausted from a hard day at work, Evelyn fell asleep on the bus and, when she finally awoke, found that she had missed her stop.
Complete exhausted
day at work
0
when she finally awoke
0
she had missed

Grammar
Noelle and Natalie argued <u>at great length</u> about the <u>authenticity</u> of the news; <u>finally</u> Noelle decided that <u>she</u> was right.
O
at great length
authenticity
finally
she
Grammar
Species of monkeys living among a variety of creatures in the rainforest come in contact with predators and prey alike as it swings through the trees.
living among
in contact with
it swings
through
Grammar
The pitch of the note that a stringed <u>instrument makes</u> depends on the length, weight, and tension of the string; <u>highest</u> notes <u>are produced by</u> shorter, lighter, or tighter strings.
instrument
makes
highest
are produced
Grammar
Despite <u>having had</u> no formal training, Jackie was <u>nonetheless able to master</u> the piano by listening to <u>recordings</u> , reading instructional books, and <u>she practiced</u> on her own.
having bad
nonetheless able to master
to recordings
she practiced
Math
You are given a fair ankle bone (шагай). Each ankle bones has four sides: horse, sheep, camel, goat. The probability of rolling any one side is equal.
Tod are given a fail affice botte (maran). Each affice bottes has four states, florely, carrier, gods. The probability of fouring any one state is equal.
What is the probability of rolling one horse?
25%
50%
12.5%
6%

# Math You are given a fair ankle bone (шагай). Each ankle bones has four sides: horse, sheep, camel, goat. The probability of rolling any one side is equal. What is the probability that you roll four horses? 0 3.9% 2.4% 0 0.39% 1.39% Math You are given a fair ankle bone (шагай). Each ankle bones has four sides: horse, sheep, camel, goat. The probability of rolling any one side is equal. If you get two horses, what is the probability that the next two rolls will be horses? 0 6.25% 15.4% 25.5%

## Math

2.3%

Using the following equation and information to

find *r*:

$$r = Rf + \beta(Rm - Rf)$$
if  $Rf = 0.04$ ,  $\beta = 1.2$ ,  $Rm = 0.10$ 

0.208

0.072

0.112

### Math

0.0744

Using the formula below, what is the closest value

to PV?

$$PV = 70 + \frac{1 - 1/(1 + 0.08)^{10}}{0.08} + \frac{1000}{(1 + 0.08)^{10}}$$

$$0$$

$$932.89$$

$$0$$

$$469.71$$

$$0$$

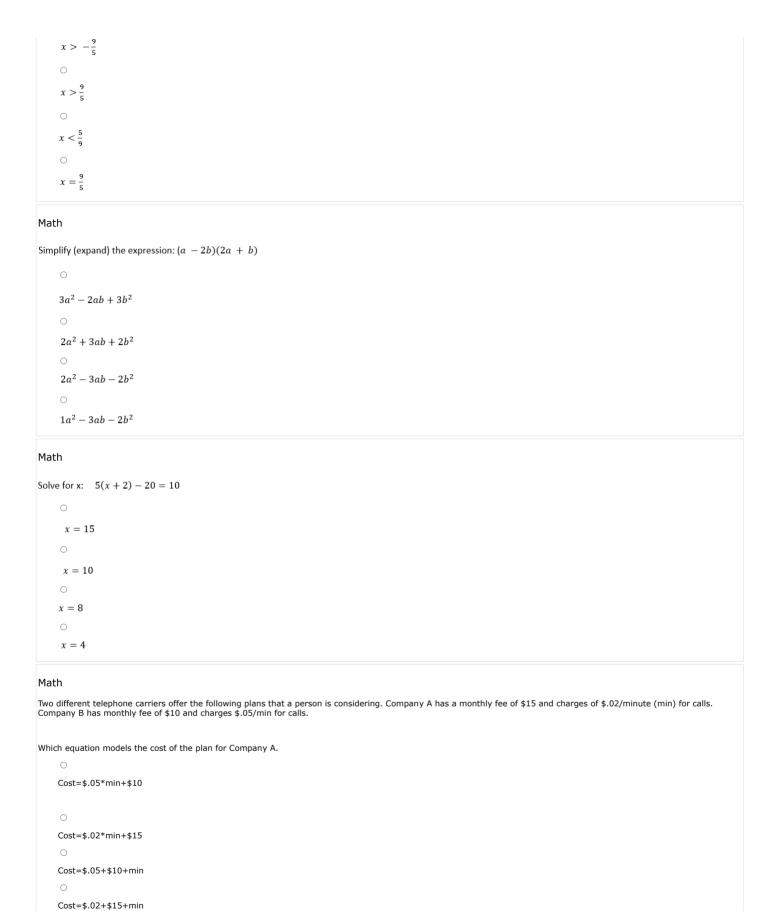
$$1428.29$$

$$0$$

$$1435.00$$

### Math

Solve for x: -10x + 2 < 20



### Math

Two different telephone carriers offer the following plans that a person is considering. Company A has a monthly fee of \$15 and charges of \$.02/minute (min) for calls. Company B has monthly fee of \$10 and charges \$.05/min for calls.

Find out how many minutes would make the two plans equal. Round to the nearest minute.

С

400 minutes

	175 minutes	
	167 minutes	
	They are never equal	
Ma	ıth	

Two different telephone carriers offer the following plans that a person is considering. Company A has a monthly fee of \$15 and charges of \$.02/minute (min) for calls. Company B has monthly fee of \$10 and charges \$.05/min for calls.

If the person uses an average 400 minutes, which company would have a lower cost plan?

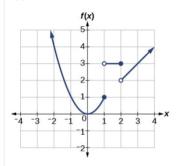
0

Company A

Company B

They are the same cost

### Math



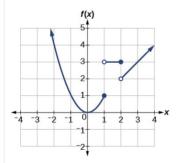
### Find f(1)

3 0

-1

No answer

## Math



## Find f(-1)

4

1

 $\circ$ 

No answer

### Math

х	1	2	3	4	5	6	7	8	9
f(x)	5	10	15	20	20	30	40	50	60

What is the average rate of change between f(1) and f(3)?

 $\bigcirc$ 

\(\frac{1}{5}\)

0

10

0

2

5

### Math

The function for profit is R - C = P. A fast-food restaurant has a cost of production C(x) = 11x + 120 and a revenue function R(x) = 5x. When does the company start to turn a profit (P) (if ever)?

0

100

0

500

0

700

Restaurant will never turn a profit

### Math

The startup cost for a restaurant is \$120,000, and each meal costs \$10 for the restaurant to make. If each meal is then sold for \$15, after how many meals does the restaurant break even (if ever)?

С

24'000 meals

0

5'000 meals

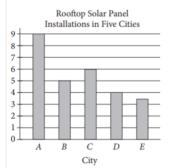
0

500 meals

0

Company will never break even

### Math



The number of rooftops with solar panel installations in 5 cities is shown in the graph above. If the total number of installations is 27,500, what is an appropriate label for the vertical axis of the graph?

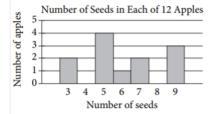
Number of installations (in tens)

Number of installations (in hundreds)

Number of installations (in thousands)

Number of installations (in tens of thousands)

### Math



Based on the histogram above, of the following, which is closest to the average (arithmetic mean) number of seeds per apple?

4

С

5

6

0

### Math

Lengths of Fish (in inches)						
8	9	9	9	10	10	11
11	12	12	12	12	13	13
13	14	14	15	15	16	24

The table above lists the lengths, to the nearest inch, of a random sample of 21 brown bullhead fish. The outlier measurement of 24 inches is an error. Of the mean, median, and range of the values listed, which will change the most if the 24-inch measurement is removed from the data?

0

Mean

Median

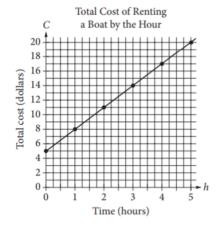
0

Range

0

They will all change by the same amount

### Math



The graph above displays the total cost C, in dollars, of renting a boat for h hours.

What does the C-intercept represent in the graph?

C

The initial cost of renting the boat

0

The total number of boats rented

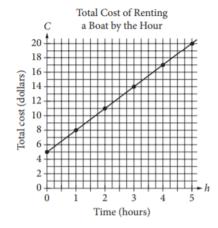
0

The total number of hours the boat is rented

С

The increase in cost to rent the boat for each additional hour

### Math



The graph above displays the total cost  $\mathsf{C}$ , in dollars, of renting a boat for  $\mathsf{h}$  hours.

Which of the following represents the relationship between h and C?

0

C = 5h

0

 $C = \frac{3}{4}h + 5$ 

0

C = 3h + 5

 $_{\bigcirc}h=3c$ 

### Math

Annual Budgets for Different Programs in Kansas, 2007 to 2010

Program	Year					
Program	2007	2008	2009	2010		
Agriculture/natural resources	373,904	358,708	485,807	488,106		
Education	2,164,607	2,413,984	2,274,514	3,008,036		
General government	14,347,325	12,554,845	10,392,107	14,716,155		
Highways and transportation	1,468,482	1,665,636	1,539,480	1,773,893		
Human resources	4,051,050	4,099,067	4,618,444	5,921,379		
Public safety	263,463	398,326	355,935	464,233		

The table above lists the annual budget, in thousands of dollars, for each of six different state programs in Kansas from 2007 to 2010.

Which of the following best approximates the average rate of change in the annual budget for agriculture/natural resources in Kansas from 2008 to 2010?

C

\$50,000,000 per year

0

\$65,000,000 per year

0				
\$75,000,000 per y	/ear			
0				
\$130,000,000 per	year			
Math				
Annual Budgets fo	or Different Prog	grams in Kansas	s, 2007 to 2010	
Program	2007	Ye		2010
4 - 1 - 1 1	2007	2008	2009	2010
Agriculture/natural resources	373,904	358,708	485,807	488,106

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Human resources	4,051,050	4,099,067	4,618,444	5,921,379		
Public safety	263,463	398,326	355,935	464,233		

The table above lists the annual budget, in thousands of dollars, for each of six different state programs in Kansas from 2007 to 2010.

Of the following, which program's ratio of its 2007 budget to its 2010 budget is closest to the human resources program's ratio of its 2007 budget to its 2010 budget?	
0	

Agriculture/natural resources

0 Education

0

Highways and transportation

0 Public safety

### Math

Annual Budgets for Different Programs in Kansas, 2007 to 2010

Program	Year				
Frogram	2007	2008	2009	2010	
Agriculture/natural resources	373,904	358,708	485,807	488,106	
Education	2,164,607	2,413,984	2,274,514	3,008,036	
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The table above lists the annual budget, in thousands of dollars, for each of six different state programs in Kansas from 2007 to 2010.

The total budget for all programs in	2010 #26 271 002 000	A	- C + L + - + - 1   L +	
The foral budger for all brograms in	2010 Was \$26.371.802.000.	Approximately what percentage (	or the total builder was n	niniic sarerv?

0 2%

5%

10%

15%

### Math

Katarina is a botanist studying the production of pears by two types of pear trees. She noticed that Type A trees produced 20 percent more pears than Type B trees did. Based on Katarina's observation, if the Type A trees produced 144 pears, how many pears did the Type B trees produce?

0

115 0

124
0
173
Math
Number of Portable Media Players Sold Worldwide Each Year from 2006 to 2011    180
According to the line graph above, the number of portable media players sold in 2008 is what fraction of the number sold in 2011?
0
5/8
10/27
8/5
0
1/4
Math  Jessica opened a bank account that earns 2 percent interest compounded annually. Her initial deposit was \$100, and she uses the expression \( \$100(x)^t \) to find the value of the account after t years
What is the value of x?
0.02
0.20
1.02
2.00
Math  Jessica's friend Tyshaun found an account that earns 2.5 percent interest compounded annually. Tyshaun made an initial deposit of \$100 into this account at the same time
Jessica made a deposit of \$100 into her account. After 10 years, how much more money will Tyshaun's initial deposit have earned than Jessica's initial deposit? (Round your answer to the nearest dollar?)

0 \$25

0

\$125

0

\$3 0

\$28

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