

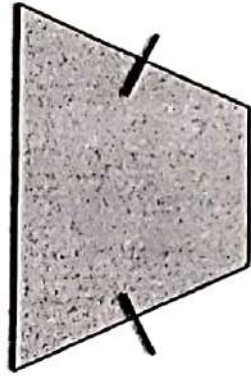
WRMS



7th Grade AMI Packet DAY EIGHTEEN

Name _____

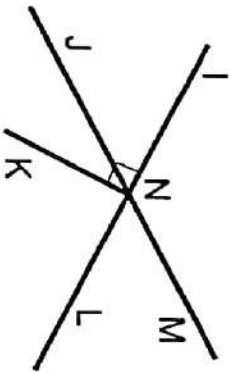
The ratio of side lengths of an isosceles trapezoid is 3:2:3:4. If the perimeter is 84 inches, what is the length of the longest side?



- a. 28 in. b. 12 in c. 21 in. d. 32 in.

3.) Which of the following statements about the angles below must be true:

- I. $m\angle INJ = m\angle MNL$
- II. $m\angle INM + m\angle MNL = 180^\circ$
- III. $m\angle INM = m\angle KNL$
- IV. $m\angle INK = m\angle KNL$
- V. $m\angle KNJ = m\angle MNL$



- a. all are true
- b. I, III, and V
- c. I and II
- d. I, II, and IV

Day 18

2.) The table below displays the number of free throws that Josh has made and the number he has missed this season. Based on his previous results, what is the probability that Josh will make both of his next two free throw shots?

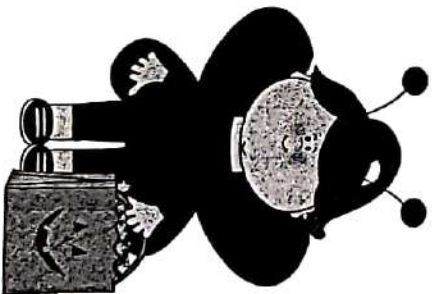
Josh's Free Throws	
Number Made	Number Missed
28	12



- a. 49%
- b. 70%
- c. 35%
- d. 65%

4.) Zoe buys some candy at the candy shop. The cost of the candy is \$3.50 per pound and the tax costs an additional \$1.50. If Zoe pays a total of \$15.50, which equation could be used to calculate the number pounds of candy Zoe bought?

- a. $1.5p + 3.5 = 15.5$
- b. $3.5p + 15.5 = 3.5$
- c. $15.5p + 3.5 = 1.5$
- d. $3.5p + 1.5 = 15.5$



NAME _____

DATE _____

PERIOD _____

Unit 6, Lesson 10: Different Options for Solving One Equation

Solve each equation. Show or explain your method.

1. $8.88 = 4.44(x - 7)$

2. $5\left(y + \frac{2}{5}\right) = -13$

Name: _____

Main Idea 2

Directions: Read each passage and ask yourself, "What is the author doing in this paragraph?" Write your answer in the summary box and then think of an appropriate title for the passage based on the main idea of the passage.

1. Being a clown isn't all fun and games. Rodeo clowns expose themselves to great danger every time they perform. When cowboys dismount or bulls buck them off, rodeo clowns jump in front of the bulls and motion wildly to get their attention. In this way rodeo clowns provide an alternate target, and in doing so protect the rider. Of course, this is a very dangerous thing to do. So you see, sometimes clowning around can be serious business.

Summarize this paragraph in one sentence. **Be specific and clearly explain the main idea.**

An appropriate title: _____

2. Wolverines are medium sized mammals. They weigh no more than 50 lbs. Yet they have earned their reputation for ferocity by killing prey many times their size. But why do they get in so many fights? The reason why wolverines have so many conflicts with other animals (including wolves, cougars, and even bears) is probably because of the wolverine's preferred hunting style. Rather than chasing down or tricking its prey like most hunters, the wolverine prefers to take its meals directly from other hunters. So while a polar bear or a lone wolf might be enjoying a hard earned carcass, a hungry wolverine may try to take his lunch. As you might imagine, this style of hunting get the wolverine in plenty of fights.

Summarize this paragraph in one sentence. **Be specific and clearly explain the main idea.**

An appropriate title: _____

3. Sometime in December of 1891, Dr. James Naismith was teaching gym at the YMCA College in Springfield, Massachusetts. It was raining, and Dr. Naismith was trying to keep his students active. He wanted them playing a vigorous game that would keep them moving. He rejected a few ideas that were too rough. Then Naismith had his breakthrough. He wrote out the rules for a game with peach baskets fixed to ten-foot elevated tracks. Naismith's students played against one another, passing the ball around and shooting it into the peach baskets. Dribbling wasn't a part of the original game. Also it took a while to realize that the game would run more smoothly if the bottoms of the baskets were removed. But this game grew to be one of the most popular sports in America today. Can you guess which one?

Summarize this paragraph in one sentence. **Be specific and clearly explain the main idea.**

An appropriate title: _____

4. What's that humming sound? Could it be the hummingbird, the only bird capable of backward flight? Hummingbirds have many unique flight habits that distinguish them from other birds. Most birds flap their wings up and down to fly, but the hummingbird moves its wings forward and backward very rapidly in a figure eight pattern. This allows the hummingbird to hover in position. They can also fly upside down and move about very rapidly. Other birds have to push off with their feet to begin flying and work their ways up to their top speeds. The hummingbird can both start flying at maximum speed and stop flying instantaneously. Once you've seen a hummingbird in flight, it's unlikely that you'll mistake them for another bird.

Summarize this paragraph in one sentence. **Be specific and clearly explain the main idea.**

An appropriate title: _____

5. Remember, if something is worth doing, it is worth doing correctly. That said, the key to making perfect cookies is merely a matter of preparation and precision. To begin with, read your cookie recipe thoroughly before baking. Make sure that you have all the necessary ingredients before you continue. Next, use good tools and utensils. Sometimes, the craftsman is only as good as his or her tools. By using good tools you minimize mistakes and improve the quality of your product. Last, use top quality ingredients. Unlike characters in fairytales, you can't turn lead into gold. If you use poor quality materials, you'll create inferior products. So, to make perfect cookies you should use the highest quality materials available. Bon appetite!

Summarize this paragraph in one sentence. **Be specific and clearly explain the main idea.**

An appropriate title: _____

6. You might think that all automobile fuels are the same, but they aren't. Automobiles can run on one of three types of fuel: gasoline, diesel, and biodiesel. All these fuels are burned inside of the engine, which creates the heat and energy that is used to power the car. But there are important differences between these fuels. Gasoline and diesel are more common than biodiesel. But each burns differently. Diesel fuel is heavier and less flammable than gasoline, so it has to be compressed before it will burn. Gasoline may be lighter than diesel, but both fuels are made from crude oil. On the other hand, biodiesel fuel is made from vegetables. Both biodiesel and diesel fuels must be burned in diesel engines, which only use diesel fuel. If gasoline is pumped into a diesel engine, it will have to be pumped out. These fuels may look pretty similar at the gas station, but remember that there are important differences between them or it may cost you.

Summarize this paragraph in one sentence. **Be specific and clearly explain the main idea.**

An appropriate title: _____

SECTION 2 GOVERNMENT & ECONOMICS
GeoActivity

Use with Southwest Asia & North Africa Today, Section 2.5, in your textbook.

Go to Interactive Whiteboard GeoActivities at myNCGconnect.com to complete this activity online.



2.5 AFGHANISTAN: MOVING FORWARD

Map Afghan Ethnic Groups

Conflict among Afghanistan's many ethnic groups is one reason for the unrest and disunity that has plagued the country. The area's rugged terrain makes unity difficult as well. Read the descriptions of Afghanistan's main ethnic groups. Then complete the map and answer the questions.

Pashtun The Pashtun are the largest single ethnic group, making up about half of the population. Traditionally, they have had the most political power. The area they live in forms a large crescent shape, starting at Kabul, looping south along the border with Pakistan, and then northward along the border with Iran to Herat.

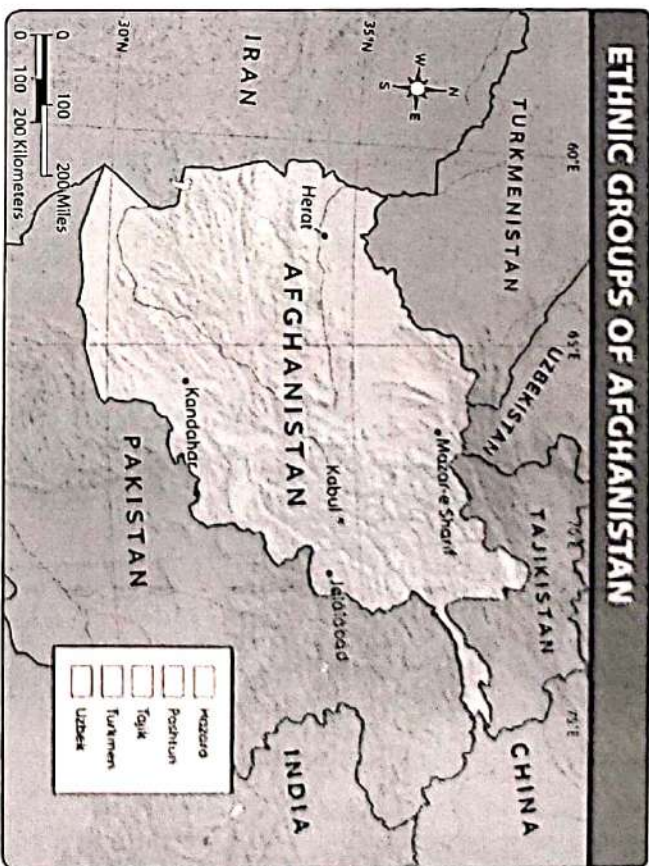
Tajik The Tajik are the second largest group. They live mainly in the valleys in the provinces north of Kabul on the border with Tajikistan. Others live in the central mountains.

Hazara This group lives in an underdeveloped region in the central mountains.

Uzbek The Uzbeks live all across the northern plains. Some Uzbeks also live across the northern border in Uzbekistan.

Turkmen The Turkmen of Afghanistan live in a narrow strip along the border with Turkmenistan.

1. Create Maps Using the descriptions, locate the territory of each group and shade it in on the map. Use a different color for each group and record it in the legend.
2. Interpret Maps What evidence showing the dominance of the Pashtun do you see on the map?



3. Make Inferences Most of the major ethnic groups also have large populations in neighboring countries. How might this affect national unity?
4. Make Generalizations How has Afghanistan's physical geography contributed to the isolation of different ethnic groups?