Brookfield

4th Grade Blizzard

Bag #3

Schneider/Shaffer/Pierko

Math 4 today

Name _____

1

20 ÷ 5 = _____

18 ÷ 6 = _____

24 ÷ 4 = _____

27 ÷ 3 = _____

2

4 x 9 = _____

7 x 8 = _____

8 x 9 = _____

6 x 9 = _____

3 Eva read 22 pages on Monday and 91 pages on Tuesday. Mario read 89 pages on Monday and 63 pages on Tuesday. About how many more pages did Mario read?

◯ 20 ◯ 50

◯ 40 ◯ 90

4 Juan has 48 stamps and 36 stickers. He wants to glue the same number of stamps and the same number of stickers onto 6 pages in his collector's album. Show how to find the total number of stamps and stickers he will put on each page?

5 Which pair are **NOT** related facts?

◯ 8 x 8 = 64 64 ÷ 8 = 8

◯ 8 + 8 = 16 8 - 8 = 0

◯ 4 x 6 = 24 6 x 4 = 24

◯ 5 x 9 = 45 45 ÷ 9 = 5

6 Which numerals are more than **347,129** but less than **412,076**?

◯ 418,000 ◯ 398,899

◯ 409,778 ◯ 362,901

◯ 447,202 ◯ 332,388

◯ 4,001,033 ◯ 34,100

7 Fill in the missing digits for each number.

nine hundred eighty-six thousand, four hundred thirty-five

9_____ _____,_____3_____

seven hundred twenty-one thousand, two hundred ninety-eight

_____ _____1,_____ _____8

8 Match.

_____ line AB

_____ ray AB

_____ line segment AB

_____ ray YX

_____ line segment XY

1 X Y

2 A B

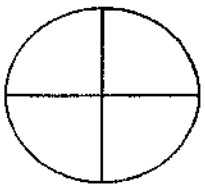
3 X Y

4 A B

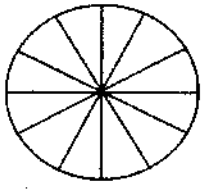
5 A B

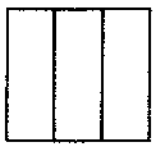
9 A new play is opening in the city. It begins at 8:00. It takes Carol's family 1 hour and 25 minutes to drive to the city. At what time should Carol's family leave home in order to arrive at the play on time?

10 Shade in the second figures to complete the equivalent fractions.

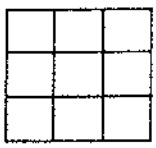


___ = ___





___ = ___



Lesson

BLAST-OFF!

It won't replace the airplane anytime soon. But the SoloTrek XFV is a machine that may one day give people a new way to zip through the sky.

The SoloTrek XFV was created by Michael Moshier. Moshier says he came up with the idea for the SoloTrek because he's "always dreamed of being able to fly."

The SoloTrek is flown by a single pilot, who straps into the device and uses controls built into the handles. The machine uses fans, an engine, and built-in electronics to get it off the ground.

Experts say the SoloTrek will one day be able to fly as high as 8,000 feet. That's about eight times higher than the whole Empire State Building in New York City! Its speed will reach 80 miles per hour—a little faster than a speeding car on a highway.

This guide will help you with words in the article that you may not know how to pronounce.

machine (muh-SHEEN)

millennium (muh-LEN-ee-uhm)

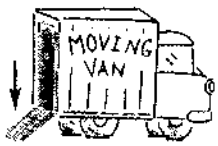
device (di-VISSE)

invention (in-VEN-shuhn)

electronics (i-lec-TRON-iks)

SIMPLE MACHINES

Simple machines are often small parts of larger machines. Most inventions have one or more simple machines inside them. The SoloTrek XFV has them all!



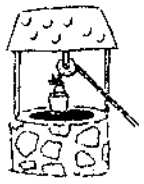
- An **inclined plane** helps you move heavy objects down from high places. A ramp on a moving van is one example.

- A **wedge** is used to push things apart, or to keep things from closing. A doorstop is one example.

- A **lever** is used to lift or open something. If you put a heavy object on one side, the other side goes up. A bottle opener is one example.

- A **screw** is used to hold two things together. Look at all the objects around you—you're bound to find screws in at least one of them!

- A **wheel and axle** spin around and help move things from place to place. You can find a wheel and axle on a wagon, a car, or an eggbeater.



- A **pulley** is a rope attached to a wheel. You pull one side of the rope to move something on the other side. A pulley can be found on a flagpole or a well.

lesson 22

check it out

Blast-Off!

Fill in the circle next to the correct answer.

1. Which simple machine is used to hold things together?
   - (A) wedge
   - (B) lever
   - (C) pulley
   - (D) screw

2. Another name for this article could be _____ .
   - (A) The SoloTrek XFV
   - (B) Inventing Planes and Other Flying Machines
   - (C) The Life of a Pilot
   - (D) Simple Machines

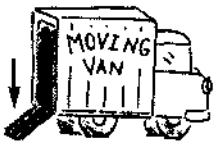
3. A **pilot** is a person who _____ .
   - (A) invents things
   - (B) flies planes
   - (C) drives fast cars
   - (D) bakes pies

4. A wheelchair ramp leading up to a building is an example of _____ .
   - (A) a wheel and axle
   - (B) a wedge
   - (C) an inclined plane
   - (D) a screw

5. Underline three sentences in the article that describe the SoloTrek XFV.

Blast-Off!

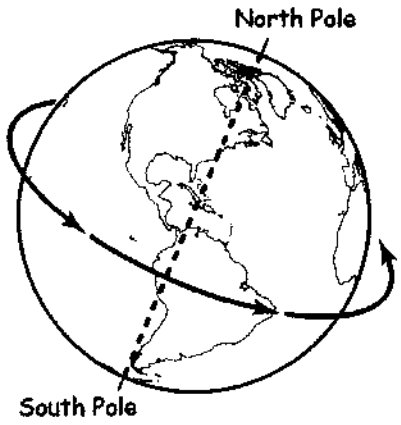
Complete the chart below.

SIMPLE MACHINE	PICTURE	EXAMPLE
inclined plane		ramp
wedge		
lever		
screw		
wheel and axle		
pulley		

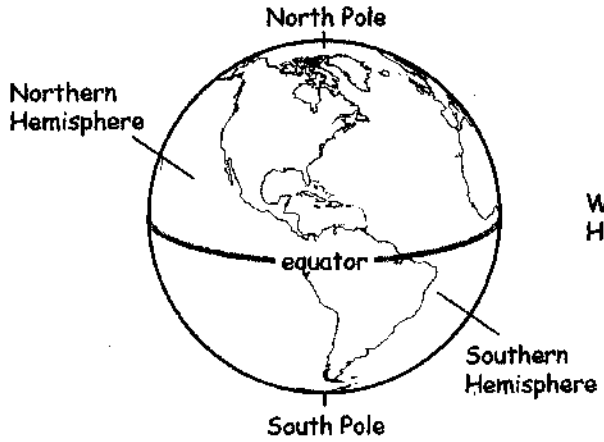
Write About It

Draw a picture of you flying in the SoloTrek XFV. Write about the trip you would take in this new machine.

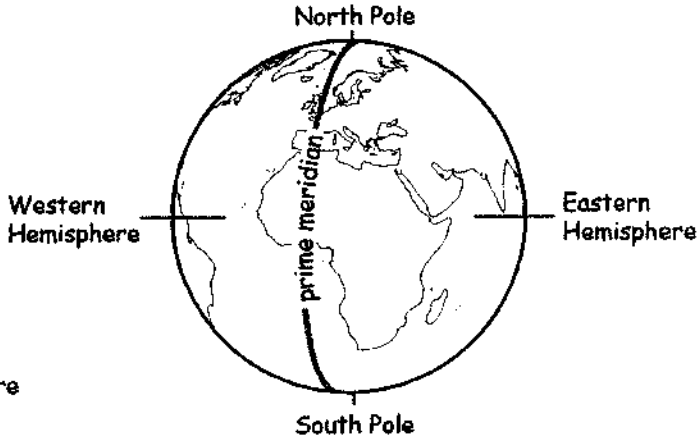
Globe Lines



A globe shows how the Earth rotates on an imaginary center line called an *axis*.



A globe shows an imaginary line called the *equator*. The equator runs around the center of Earth. The equator is located at 0° latitude. The equator divides the Earth into the Northern and Southern Hemispheres.



A globe shows an imaginary line called the *prime meridian*. The prime meridian runs from the North Pole to the South Pole. The prime meridian is located at 0° longitude. The prime meridian helps to create the Western and Eastern Hemispheres.

Name _____

Globe Lines

WEEK 2

Monday

1. Why is a globe more accurate than a flat map to represent Earth's surface?

_____

_____

2. What is the name of the imaginary line on which the Earth rotates?

_____

Tuesday

1. What is the name of the imaginary line that divides the Earth into the Northern and Southern Hemispheres?

_____

2. Is the equator located at 0° longitude, 0° latitude, or 180° longitude?

_____

Wednesday

1. What is the prime meridian?

_____

2. The prime meridian helps create which two hemispheres?

_____

Name _____

Globe Lines

Thursday

1. Name the northernmost point of Earth's axis.

   _____

2. Name the southernmost point of Earth's axis.

   _____

Friday

1. Which imaginary line—the equator or prime meridian—runs all the way around the Earth?

   _____

2. What happens to Earth's surface temperature as you travel farther away from the equator?

   _____

Challenge

What is the location of the North Pole and South Pole? Label the North Pole and South Pole in degrees on all three globes. Use a reference globe to help you.

Name: _____

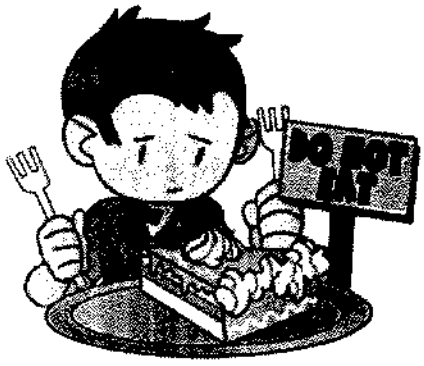
An **idiom** (pronounced: ID-ee-um) is a saying that doesn't mean exactly what it says.

If someone says they've been left out in the cold, what do they mean?

Idioms

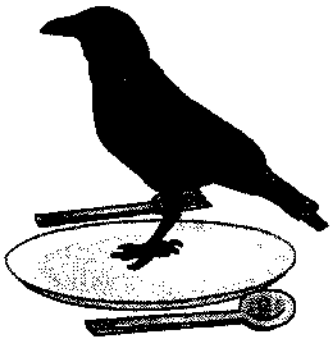
by Lill Pluta

Wouldn't you be tickled pink,
with everything except the sink?
But all that glitters isn't gold,
so don't get left out in the cold.
You can't have cake and eat it too,
or bite off more than you can chew.
It's easy come and easy go,
so hold your tongue, or you'll eat crow.



If someone tells you, "You can't have your cake and eat it too," what do they mean?

If you're tickled pink, how do you feel?



What does it mean if you have to eat crow?

Name: _____

Idioms

Use with Idiom Poem by Lill Pluta

An idiom is an old saying that doesn't mean exactly what it says. Every culture has its own idioms, which can make learning a new language confusing.

Match each idiom from the poem to its meaning.

1. ____ tickled pink

2. ____ everything except the sink

3. ____ all that glitters isn't gold

4. ____ left out in the cold

5. ____ can't have your cake and eat it too

6. ____ bite off more than you can chew

7. ____ easy come, easy go

8. ____ hold your tongue

9. ____ eat crow

a. admit you are wrong

b. leave somebody out, exclude

c. don't say anything

d. extremely happy, delighted

e. lose something as quickly as you get it

f. can't have something both ways

g. try to do too much at one time

h. taking almost everything there is

i. attractive things might be useless