Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_

**BINGO Review Questions for Unit 2 Assessment**

Finish problems not completed in class for homework.

|  |  |  |
| --- | --- | --- |
| 1) (1.4 X 10-5)(2.6 X 102) =  | 2) (6.4 X 107) ÷ (8 X 1012) = | 3) Write the number in scientific notation: 32,000,000 |
| 4) (4.5 X 10-5)(5.2 X 10-6) = | 5) Write the number in scientific notation: 0.000023825 | 6) Write the number in standard form: 6.547 X 10-5 |
| 7) (3.4 X 104)(2.1 X 103) = | 8) Write the number in standard form: 2.54 X 106 | 9) A piece of cardboard is 0.3456 inches thick. Write this number in scientific notation. |
| 10) The table below shows the approximate tons of cars exported from Germany to the U.S. in the follow years.

|  |  |
| --- | --- |
| **Year** | **Tons of Shoes** |
| *2007* | $$7.2×10^{5}$$ |
| *2008* | $$8.31×10^{6}$$ |
| *2009* | $$5.9×10^{7}$$ |
| *2010* | $$3.76×10^{6}$$ |

*Which list is in order from the smallest distance to the largest distance?*1. *2007, 2010, 2008, 2009*
2. *2008, 2007, 2010, 2009*
3. *2007, 2008, 2010, 2009*
4. *2007, 2008, 2009, 2010*
 | 11) A bus traveled for ¾ of an hour at a speed of 110 miles per hour. It then slowed down to 50 miles per hour for the next ½ hour. What is the total distance the train traveled? | 12) James rode his skateboard 1.8 miles up a hill in 0.3 hour. Then he rode back downhill on the same path in 0.2 hours. What is the average rate for the combined trip? |
| 13)The table below shows the thickness in inches for the following types of paper.**Paper Types**

|  |  |
| --- | --- |
| **Paper** | **Thickness** |
| *cardstock* | *3.348 X 10-2* |
| *printer paper* | *1.898 X 10-3* |
|  *construction paper* | *3.684 X 10-3* |
|  *poster paper* | *1.024 X 10-2* |

*Which list of paper types is in order from the least thick to the most thick?* 1. cardstock, printer paper, construction paper, poster
2. poster, cardstock, printer paper, construction paper
3. construction paper, printer paper, cardstock, poster
4. poster, printer paper, cardstock, construction paper
 | 14) An aircraft carrier made a trip to China and back. The trip there took 6 hours and the trip back took 3 hours. It averaged 300 km/h on the return trip. Find the average speed of the trip there. | 15) The distances and speeds that Ms Ward drove are listed below. •20 miles at 30 miles/hour•150 miles at 50 miles/hour•Stopped for lunch for 1 hour.•30 miles at 65 miles/hourWhat was her average speed in miles/hour for her entire trip, including the time she stopped for lunch? |
| 16) The thickness of one piece of paper is 2.3 X 10-3. What the thickness of 18 pieces of paper? | 17) The number of people with email in the US is 5.7 x 1019 and the number of people with email in China is 3.6 x 1021. How many people use email in the US and China? | 18) (6.5 x 1015) – (2.9 x 1017) =  |
| 19) About 9.5 X 1010 people live in the Africa. About 8.3 X 1018 people live in Asia. About how many more people live in the Asia than live in Africa? | 20)$ \frac{\left(2.2 X 10^{4}\right)(5 X 10^{5})}{2.5 X 10^{-3}}$ =  | 21) The 8th grade goes on a trip to Chicago. They travel 583 miles, and it takes them 11 hours to get there. How fast are they driving? |
| 22) The largest planet in our solar system is Jupiter with a diameter of 1.43 x 105 km. the smallest planet is Mercury with a diameter of 4.9x103 km. About how many times greater is the diameter of Jupiter tan the diameter of Mercury in scientific notation? | 23)$ \frac{(4.6 X 10^{6})(1.5 X 10^{-8})}{3 X 10^{4}}$ =  | 24)$ \frac{(8 X 10^{-5})(3.2 X 10^{-6})}{2 X 10^{-2}}$ = |
| 25) (3.4 X 106) ÷ (2 X 108) = | 26) The volleyball team goes to a game at Raleigh Egypt. They travel 9 miles at 30 miles/hour by bus. How long does it take the team to get there **in minutes?** | 27) A rocket travels at approximately 2.3 X 105 meters per second. If the rocket travels 2.3 X 1012 meters, how many seconds will it take for the rocket to get to its destination?  |
| 28) (10.5 X 1020) ÷ ( 1.2 X 10-14) = | 29) The basketball team travels to California for a championship game. If the plan they are on travels at 5.7 X 102 miles per hour for 3 hours, how many miles did they travel? | 30) Mike is practicing for a track meet. Three of his practice results are shown in the table.

|  |  |
| --- | --- |
| Distance (miles) | Time (minutes) |
| 3 | 18.6 |
| 5 | 30.5 |
| 4 | 25 |

For which distance did Mike run the fastest? |
| 31) Convert 29 minutes into hours. | 32) Ms. Misconish is traveling 21 miles at 59 mph. It took her 0.23 hours to get to her destination. How long did it take her in minutes? | 33) Khadija and Mallory are trying to see who can read the most words per second. Khadija reads 97 words in 64 seconds and Mallory read 87 words in 120 seconds. Who reads words the fastest? |