Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Math Pro 5: Test Prep HW #92 Spring Break

Work Must Be Shown For Every Question.

1. The shaded part of the square below has a length of foot and a width of foot.

1 foot

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

1 foot

What is the area, in square feet, of the shaded part of the square?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the value of the expression below?

24.5 − 15.75

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Mr. Morris built a fence to enclose his yard. He put up of the fence on Monday. On Tuesday, he put up of the fence, and on Wednesday, he put up the rest of the fence. What portion of the fence did he put up on Wednesday?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which statement is true about the product of × 7?
2. The product is greater than each factor.
3. The product is less than each factor.
4. The product is greater than but less than 7
5. The product is equal to one of the factors.
6. Which term can be put in the blank to make the statement below true?

3,000,000 = 30 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. thousands
2. ten-thousands
3. hundred-thousands
4. millions

.

1. What is the value of the expression below?

738 ÷ 18

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Four hundred sixty-nine and eight hundredths can also be written as

A. 460.908

B. 460.98

C. 469.08

D. 469.800

1. Rich’s fish tank is in the shape of a right rectangular prism. It has a length of 6 feet, a width of 2 feet, and a height of 4 feet. What is the volume, in cubic feet, of Rich’s fish tank?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Penelope made a paper chain that was 6 feet 10 inches long. What was the length, in inches, of the paper chain?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Each lap around Eastern Park is 3 miles. Janet rode her bike of a lap before one of the tires on her bike went flat.

How many miles did Janet ride before one of the tires on her bike went flat?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Show this expression in expanded form?

40.54

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the value of the expression below?

**[24 + 9 – (4 x 2) + 11] ÷ 2**

Show your work.

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Sophia asked the students in her class to name their favorite sport. She made this list to display the results.

• of the students named basketball

• of the students named soccer

• of the students named football

• The rest of the students in the class named baseball.

What fraction of the students in the class named baseball as their favorite sport?

Show your work

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Mr. Chang needs to ship 8 boxes of cookies in a packing carton. Each box is a right rectangular prism 8 inches long, 5 inches wide, and 3 inches high. What is the volume, in cubic inches, of each box?

Show your work.

Answer: \_\_\_\_\_\_\_\_\_cubic inches

1. Mr. Chang wants to ship all 8 boxes in one packing carton. He has a choice of three different sizes of packing cartons that are right rectangular prisms of the following sizes.

• Packing carton A: 11 inches long, 10 inches wide, and 8 inches high

• Packing carton B: 16 inches long, 10 inches wide, and 5 inches high

• Packing carton C: 17 inches long, 11 inches wide, and 7 inches high

Which packing carton can Mr. Chang use?

Show your work.

Answer packing carton \_\_\_\_\_\_\_\_\_.

1. Which statement is true about the values of the two expressions below?

Expression A: 3 × (8 + 4)

Expression B: 8 + 4

1. The value of Expression B is three times the value of Expression A.
2. The value of Expression A is three times the value of Expression B.
3. The value of Expression A is three more than the value of Expression B.
4. The value of Expression B is three more than the value of Expression A.
5. Which phrase describes the volume of a 3-dimensional figure?
6. the number of square units it takes to fill a solid figure
7. the number of cubic units it takes to fill a solid figure
8. the number of square units it takes to cover the outside of a solid figure
9. the number of cubic units it takes to cover the outside of a solid figure
10. A recipe for 1 batch of muffins included cup of raisins. Stacey made 2 batches of muffins. How many cups of raisins did she use?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Mani, James, and Isidro equally shared of a pie. Which fraction of the whole pie did each of them receive?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A number is given below.

**136.25**

In a different number, the 6 represents a value which is one-tenth of the value of the 6 in the number above. What value is represented by the 6 in the other number?

1. six hundredths
2. six tenths
3. six ones
4. six tens
5. Austin collected 30 kilograms of glass for recycling. Exactly of the glass he collected was blue. What was the total amount, in kilograms, of blue glass Austin collected?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What number goes in the blank to make the statement below true?

3,840 ounces = \_\_\_\_\_\_\_\_ pounds

1. 24
2. 240
3. 480
4. 61,440
5. What is the area, in square inches, of a rectangle with the dimensions shown in the diagram below?

inches

|  |
| --- |
|  |

inches

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the value of the expression below?

1,536 ÷ 24

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the volume, in cubic centimeters, of the figure below?

3 cm

3 cm

5 cm

1. 15
2. 24
3. 30
4. 45

1. Millie designed a rectangular label to put on the front of her scrapbook. The label was foot wide and foot long. What was the area, in square feet, of the label?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which expression means the same as the phrase below?

Subtract 3 from the product of 8 and 5

1. (5 × 8) + 3
2. (5 × 8) − 3
3. 5 ×(8 − 3)
4. 5 ×(8 + 3)
5. Jim gave the following description of a figure:

• It is a quadrilateral.

• All sides are equal in length.

• There are two equal obtuse angles and two equal acute angles.

Which figure could match Jim’s description?

1. rectangle
2. rhombus
3. square
4. pentagon
5. Which expression is equivalent to 100,000?
6. Lincoln had 2 books in his backpack. One book had a mass of 3 pounds 7 ounces, and the other book had a mass of 2 pounds 10 ounces. What was the total mass, in ounces, of the books?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A box contains 512 grams of cereal. One serving of cereal is 56 grams. How many servings of cereal does the box contain?
2. 9
3. 9
4. 9
5. 9
6. Lori and Maria bought juice to make fruit punch. Maria bought 5 bottles of juice, each containing 750 milliliters. Lori bought 4 liters of juice. Based on this information, which sentence is true?
7. Lori bought 0.25 liter more juice than Maria.
8. Maria bought 0.75 liter more juice than Lori.
9. Maria bought 33.5 liters more juice than Lori.
10. Lori bought 36.25 liters more juice than Maria.
11. Clark made a model of his house. His house is 30 feet long. The dimensions of the model were the dimensions of Clark’s actual home. What is the length, in feet, of the model?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Deb has a board that measures 5 feet in length. How many -foot-long pieces can Deb cut from the board?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In which number does the 5 represent a value 10 times the value represented by the 5 in 35,187?
2. 117,568
3. 247,351
4. 325,827
5. 453,362
6. Michele is 52 inches tall. Her father is 6 feet 3 inches tall. Exactly how many inches taller is Michele’s father than Michele?
7. 11
8. 13
9. 23
10. 25
11. What is the value of + ?
12. A racecar driver completed three laps in the times shown below.

• 39.28 seconds

• 38.9 seconds

• 37.83 seconds

What was the total time, in seconds, it took for the driver to complete the three laps?

Show your work.

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Isabella is playing a game with the decimal numbers shown below.

1.5 1.05 0.15 0.105 1.50 0.015

She has to place each of the decimal numbers in one of the boxes shown below so that it makes a true number sentence. Each decimal number goes in only one box.

|  |  |  |
| --- | --- | --- |
| A  \_\_\_\_ | < | B  \_\_\_\_ |
| C  \_\_\_\_ | > | D  \_\_\_\_ |
| E  \_\_\_\_ | = | F  \_\_\_\_ |

On the line above each decimal number, write the letter of the box where that number belongs.

\_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_\_

1.5 1.05 0.15 0.105 1.50 0.015

1. Anna recorded the time she spent at soccer practice to the nearest hour for 15 days.

Her results are shown below.

**TIME SPENT AT SOCCER PRACTICE (HOURS)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Monday | Tuesday | Wednesday | Thursday | Friday |
| 2 | 2 | 1 | 2 | 1 |
| 2 | 2 | 2 | 1 | 2 |
| 1 | 2 | 2 | 1 | 1 |

Make one line plot to display Anna’s data over the 15-day period.

Be sure to

• Title the line plot

• Label the number line

• Graph all the data

1. Each team in a youth basketball league pays $984 to join the league. If a team consists of 12 players and the fee is divided equally among the players, how much does each player pay?

Show your work.

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Prism X is shown below. The volume of Prism Y is 10 cubic centimeters greater than the volume of Prism X.

Prism X

What is the volume of Prism Y?

Answer \_\_\_\_\_\_\_\_\_\_\_ cubic centimeters

What could be the length, width, and height of Prism Y?

Answer \_\_\_\_\_\_\_\_ centimeters by \_\_\_\_\_\_\_\_ centimeters by \_\_\_\_\_\_\_\_ centimeters

1. Brittany needs a total of 12 yards of yarn for an art project. She needs 1 yards of blue yarn and 5 yards of green yarn. The rest of the yarn she needs is red. How much red yarn does Brittany need?

Show your work.

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. An empty shipping box has a mass of 2.75 kilograms. An electronics store is packing 5 identical laptops in the shipping box. Each laptop has a mass of 1.65 kg. The cost to ship the box was $40.00 for the first 5 kg and $3.15 for each kilogram over 5 kg. What was the cost to ship the packed box?

Show your work.

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Last year, Bob’s Market ordered 15 pounds of plums from a local orchard. This year, the market plans to order 1 times as many pounds of plums as were ordered last year. They want of this order to be red plums. What is the total amount, in pounds, of red plums the market plans to order this year? Write your answer as a mixed number.

Show your work.

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Ann and Margie had a total of 3 gallons of paint to share for a project. They had 1 gallon each of red paint, blue paint, and yellow paint.

• To complete the project, Ann used of the red paint, of the blue paint, and of the yellow paint.

• To complete the project, Margie used of the red paint, of the blue paint, and of the yellow paint.

How many total gallons of each color of paint were left after both girls had finished the project?

Show your work.

Answer Red: \_\_\_\_\_\_\_ gallons Blue: \_\_\_\_\_\_\_ gallons Yellow: \_\_\_\_\_\_\_ gallons

Using the leftover paint, Ann and Margie decide to make green paint. They mix the yellow and blue paint together to make the green paint. How many gallons of green paint can they make?

Answer \_\_\_\_\_\_\_\_\_\_ gallons