

**Western Middle School
Summer Math Packet
For Students Entering 7th Grade**

Name: _____

Please complete this entire math packet and bring it with you to your first day of seventh grade math. All students are required to complete a summer mathematics assignment. This assignment includes topics that students should know prior to entering seventh grade. Remember to keep this in a safe place!

1.) A box weighed 1.08 grams. If the weight increased by 0.01 grams, what would the box weigh now?

- a) 1.09 g
- b) 1.90 g
- c) 9.10 g
- d) 19.0 g

2.) The length of a pencil was 10.5 cm. If the length was decreased by 0.1 centimeters, how long is the pencil now?

- a) 9.4 cm
- b) 9.5 cm
- c) 10.4 cm
- d) 10.49 cm

3.) Which means the same as $4 + 0.3 + 0.01$?

- a) 430.1
- b) 43.01
- c) 4.31
- d) 4.031

4.) Which means the same as 1.23×10^3 ?

- a) 1230
- b) 123.0
- c) 12.30
- d) 1.230

5.) $\frac{4}{5}$ of Dave's family likes corn. Which decimal number names the same amount?

- a) 4.5
- b) 0.45
- c) 0.8
- d) 0.08

6.) In 1991, a baseball player had a batting average between 0.315 and 0.360. Which of these numbers could have been his batting average?

- a) 0.305
- b) 0.314
- c) 0.341
- d) 0.365

7.) Paula jogged for 5 days this week. She ran $\frac{1}{6}$ mile, $\frac{9}{10}$ mile, $\frac{3}{4}$ mile, and $\frac{2}{5}$ mile. What is the LONGEST distance ran?

- a) $\frac{1}{6}$ mile
- b) $\frac{2}{5}$ mile
- c) $\frac{3}{4}$ mile
- d) $\frac{9}{10}$ mile

8.) Which of the following is equivalent to 7.6?

- a) $\frac{21}{6}$
- b) $7\frac{3}{5}$
- c) $\frac{76}{7}$
- d) $\frac{76}{100}$

9.) 60 % of Jen's family likes corn. Which decimal number names the same amount?

- a) 0.6
- b) 0.66
- c) 0.06
- d) 6.0

10.) Two-thirds of Ms. Green's class planned to attend the softball game. APPROXIMATELY what percent of the class was that?

- a) 75 %
- b) 66 %
- c) 99 %
- d) 33 %

11.) Fred changed 6 % to a decimal in order to determine the amount of tax he would have to pay on his purchase. Which correctly represents 6 %?

- a) 0.6
- b) 0.06
- c) 6.0
- d) 600

- 12.) 45% of the registered voters cast ballots in a recent election. What fraction of the registered voters is that?
- a) $\frac{45}{10}$
 - b) $\frac{4}{5}$
 - c) $\frac{9}{20}$
 - d) $\frac{45}{1000}$
- 13.) If 58.4 were put into the following lists so that the lists were then ordered from SMALLEST to LARGEST, in which list would 58.4 be the third number?
- a) 58.24, 58.39, 58.72
 - b) 58.1, 59.2, 59.5
 - c) 58.22, 58.53, 58.75
 - d) 58.01, 58.03, 58.07
- 14.) Maryanne scored between 7.2 and 7.4 points. Which could be the number of points she scored?
- a) 7.19
 - b) 7.24
 - c) 7.41
 - d) 7.03
- 15.) John rode his bike between $1\frac{1}{2}$ and $1\frac{3}{4}$ hours. Which could be the number of hours he rode?
- a) $1\frac{3}{8}$
 - b) $1\frac{5}{8}$
 - c) $1\frac{7}{8}$
 - d) $1\frac{13}{16}$
- 16.) Yesterday Ms. Pleban put 17.49 gallons of gas in her car. What is this amount rounded to the NEAREST gallon?
- a) 16 gallons
 - b) 17 gallons
 - c) 17.5 gallons
 - d) 18 gallons
- 17.) Last year, 168.78 million tons of garbage was collected. What is this number rounded to the NEAREST tenth?
- a) 168.7
 - b) 168.8
 - c) 170.0
 - d) 200.0

18.) Lauren needs $4\frac{1}{2}$ cups of flour for a bread recipe. She only has $2\frac{1}{8}$ cups of flour. How much MORE flour does she need?

- a) $6\frac{5}{8}$ cups
- b) $2\frac{1}{6}$ cups
- c) $2\frac{3}{8}$ cups
- d) 2 cups

19.) When Mr. Kramer left on his 3-day trip, the fuel tank in his car was full. During his trip he put in $14\frac{1}{4}$ gallons of gasoline on the first day and then $13\frac{3}{4}$ gallons on the second day. If he bought a total of 45 gallons during the trip, how much did he buy on the third day?

- a) 16 gallons
- b) $16\frac{1}{2}$ gallons
- c) 17 gallons
- d) $17\frac{1}{2}$ gallons

20.) Nancy rode on a bus 38.45 miles the first week of summer camp and 29.85 miles the second week. ABOUT how many miles did she ride on the bus during the two weeks?

- a) A little less than 60
- b) A little more than 60
- c) A little less than 70
- d) A little more than 70

21.) A 16-pound turkey should cook for ABOUT $5\frac{3}{4}$ hours. If she cooked it another $\frac{1}{2}$ hour, ABOUT how long was it in the oven?

- a) A little less than 6 hours
- b) A little more than 6 hours
- c) A little less than 7 hours
- d) A little more than 7 hours

- 22.) Roxanna is 150 centimeters tall. How many meters is that?
- a) 0.500 m
 - b) 1.5 m
 - c) 15 m
 - d) 15,000 m
- 23.) 10 gallons of milk were used when making the chocolate pudding for lunch. How many quarts is this?
- a) 2.5 quarts
 - b) 20 quarts
 - c) 5 quarts
 - d) 40 quarts
- 24.) What is the BEST unit to measure the weight of a truck?
- a) ounces
 - b) pounds
 - c) tons
 - d) grams
- 25.) A scale shows a weight of 10 grams. What object is most likely being weighed?
- a) Book
 - b) Pencil
 - c) Sandwich
 - d) Carton of milk
- 26.) Nathan's yard is 120 feet long and 53 feet wide. What is the perimeter of his yard?
- a) 346 ft.
 - b) 240 ft.
 - c) 173 ft.
 - d) 106 ft.
- 27.) Ana is carpeting her bedroom. The length of the room is 9 feet and the width is 7 feet. How many square feet of carpeting will she need?
- a) 16
 - b) 56
 - c) 63
 - d) 72

28.) What is the BEST unit to measure the amount of blood circulating through a person's hand at any one time?

- a) liters
- b) milliliters
- c) quarts
- d) kiloliters

29.) In June, Christy earned about \$18 for mowing lawns and \$29 for babysitting. ABOUT how much did she earn altogether?

- a) \$80
- b) \$30
- c) \$50
- d) \$25

30.) A recipe for bread calls for 2 cups of flour for every 3 eggs. Using this ratio, which of the following combinations could be used to make the recipe?

- a) 4 cups of flour, 5 eggs
- b) 5 cups of flour, 7 eggs
- c) 5 cups of flour, 8 eggs
- d) 6 cups of flour, 9 eggs

31.) Lauren had test scores of 84, 94, 96, 49, and 92 on five tests this marking period. What is her MEDIAN score so far this marking period?

- a) 82
- b) 83
- c) 92
- d) 96

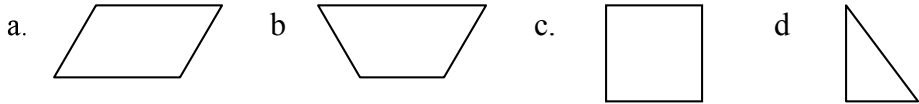
32.) T. J. is playing a word game with 26 tiles lettered a, b, c, ..., z. What is the probability that T. J. will select a vowel (a, e, i, o, u)?

- a) $\frac{1}{26}$
- b) $\frac{5}{26}$
- c) $\frac{21}{26}$
- d) 5

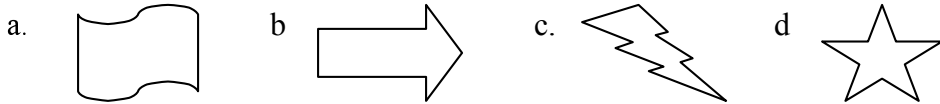
33.) A 10-foot tree casts a shadow 4 feet long. How long a shadow will be cast by a 5-foot person?

- a) 10 feet
- b) 9 feet
- c) 2 feet
- d) 1 foot

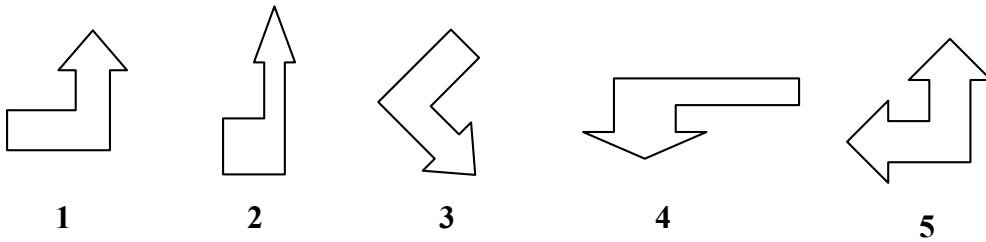
34.) Which of the following shapes is NOT a quadrilateral?



35.) Which of the following is NOT a polygon?



36.) Which two figures are congruent?



- a) 1 and 5
- b) 2 and 3
- c) 1 and 3
- d) 2 and 4

37.) Use the table to answer the following question.

Number of Students Who Bring a Packed Lunch to School

Days of the week	# of students
Monday	120
Tuesday	90
Wednesday	100
Thursday	109
Friday	70

During how many days did 100 or more students brought their lunch?

- a) 2
- b) 3
- c) 4
- d) 5

Open Ended: Complete your work in the space provided. Show all of your work.

38.) Use the data from the table below to draw and label a bar graph.

Favorite animal	# of people polled
elephant	55
tiger	30
hippo	70
wolf	60
hyena	5

Use the data from the table below to answer the following questions.

World Rivers

Rivers	Length in Miles
Uruguay	1,000
Bramaputra	1,800
Euphrates	2,235
Gambia	700
Salween	1,500

38.) For a social studies project Rita made a table that shows the length of several rivers in the world. She states Gambia River is about four times the length of the Euphrates River. Is Rita correct? Explain.

39.) According to Rita's chart, which river is about twice the length of the Gambia River? Explain.

40.) Ellison is playing a word game with 26 tiles lettered a, b, c z.
What is the probability that Ellison will select a vowel (a, e, i, o, u)?
Explain. Show your work.

41.) Write a story problem that can be solved using the equation: $18.64 / 0.5 = x$.

42.) Write a story problem that can be solved using the equation: $x - 15 = 66$

43.) Marvin arrived at school before Doug and Paul. Bob arrived after Paul and Marvin. Who arrived at school FIRST? Explain.

44.) Ellen started with a full tank of gas and drove 309 miles before she stopped for gas. She filled the tank with 10.5 gallons of gas that cost \$1.36 per gallon. How much did she pay for gas? Show your work.

45.) Alyssa bought a hat for \$13.95 and a pair of gloves for \$18.95. She gave the clerk \$40. How much change will she get? Solve this problem. Then write 1 or 2 sentences explaining how you got your answer.

46.) Sarah needs to find 49 % of 482. What would be a GOOD ESTIMATE?
Explain how you made your estimate.

47.) Scott is playing a game with 8 number tiles marked 0, 2, 4, 6, 8, 10, 12, and 14. If he draws one tile, what is the probability that the number will be LESS than 10?
Explain how you arrived at your solution.

48.) Vanessa earned \$23, \$30, \$16, and \$19 babysitting four weekends last month. What is the average (MEAN) amount earned by Vanessa last month?
Explain how you got your answer.
