

7th grade summer packet

1. To find the average of a data set you would find the _____.

- a. median
- b. mean
- c. range
- d. mode

2. $4.23 (.8)=$

- a. 3.384
- b. 33.84
- c. 338.4
- d. none of the above

3. $4.234 (.213)=$

- a. 9.01842
- b. .901842
- c. 90.1842
- d. none of the above

4. Solve.

$$3.45 * 21.3=$$

- a. 734.85
- b. .73485
- c. 73.485
- d. 7348.5

5. $\frac{1}{9} + \frac{4}{9}$

- a. $\frac{5}{9}$
- b. $\frac{4}{9}$
- c. $\frac{1}{3}$
- d. $\frac{8}{9}$

6. A _____ is an exact location in space.

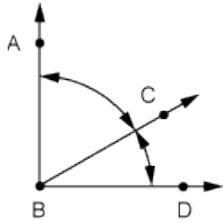
- a. line segment
- b. midpoint
- c. plane
- d. point

7. $3\frac{2}{7} + 6\frac{1}{2}$

- a. $9\frac{11}{14}$
- b. $9\frac{3}{14}$

- c. $10\frac{3}{7}$
d. $8\frac{1}{2}$
8. $4.6 + 5.9 + 6.38 + 7.2$
a. 23.08
b. 23.18
c. 24.08
d. 24.97
9. $\frac{X}{6} = 4$
a. 12
b. 24
c. 1.5
d. 32
10. $676.20 \div 4.83$
a. 1.40
b. 12.40
c. 140
d. 14
11. $5 + 5 \div 5$
a. 6
b. 2
c. 15
d. 5
12. $2103 \div 3 = ?$
a. 705
b. 701
c. 940
d. 458
13. What is the area of a rectangle that has a length of 7 feet and a width of 4 feet?
a. 11 feet
b. 22 square feet
c. 28 square feet
d. 28 feet
14. Perimeter is the measurement of the rim or outside of a shape
a. True
b. False
15. $\frac{1}{4} + \frac{2}{4} =$
a. $\frac{1}{2}$
b. $\frac{2}{4}$

- c. $\frac{1}{3}$
 - d. $\frac{3}{4}$
16. Which fractions, decimals, or percents below are not equivalent to the rest.
- a. $\frac{1}{50}$
 - b. .020
 - c. .20
 - d. 2%
 - e. $\frac{2}{150}$
 - f. .2%
17. Change the following decimal into a percent: .265
- a. 265%
 - b. .265%
 - c. 26.5%
 - d. about 20%
18. The number that appears most often in a set of numbers is called the
- a. mean.
 - b. median.
 - c. mode.
 - d. range.
19. The lowest number subtracted from the highest number in a set of numbers is called the
- a. mean.
 - b. median.
 - c. mode.
 - d. range.
20. The average of a set of numbers is called the
- a. mean.
 - b. median.
 - c. mode.
 - d. range.
21. The middle number in a set of ordered values is called the
- a. mean.
 - b. median.
 - c. mode.
 - d. range.
22. Point B is called the



- a. point
 - b. endpoint
 - c. vertex
 - d. midpoint
23. 36 is what percent of 50?
- a. 1.388%
 - b. 18%
 - c. 7%
 - d. 72%
24. How many degrees are there in a triangle?
- a. 90
 - b. 360
 - c. 45
 - d. 180
25. Draw an angle of 70 degrees.
26. Which two numbers would be used to find the range in the set of numbers below?
- 2, 5, 16, 18, 16, 6, 14
- a. 2 and 14
 - b. 5 and 18
 - c. 2 and 18
 - d. 5 and 14
27. $4\frac{1}{12} - 3\frac{3}{4} =$
28. Find the missing numbers: $741 - F = 372$
- a. 369
 - b. 399
 - c. 349
 - d. 740

29. Subtract: $\$54.85 - \$27.68 = ?$

- a. \$27.07
- b. \$9.14,
- c. \$27.17
- d. \$54.00

30. Which of the following numbers is a composite number?

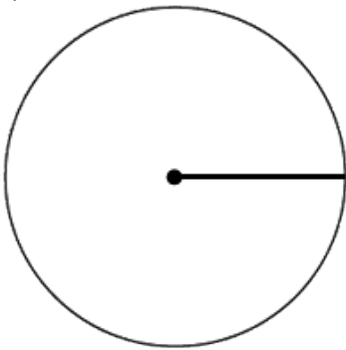
- a. 11
- b. 17
- c. 20
- d. 23

31. A rectangle has a length of 14 and a width of 4.9, what is the area?

32. a) If the radius is 5.2, what is the diameter?

b) What is the circumference?

c) What is the area?



33. What is the mode for the following set of numbers?

2, 5, 16, 18, 16, 6, 14

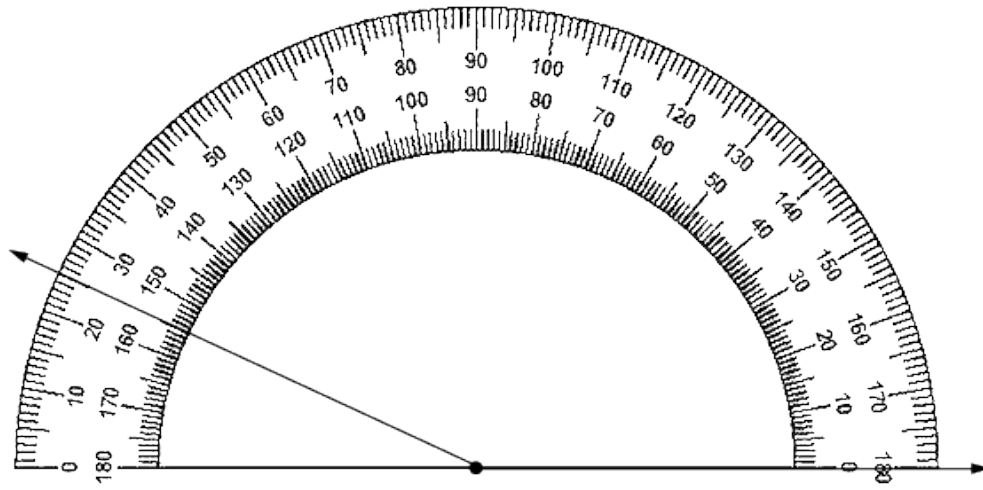
- a. 5
- b. 16
- c. 11
- d. 14

34. What is the mean for the following set of numbers?

2, 5, 16, 18, 16, 6, 14

- a. 5
- b. 11
- c. 16
- d. 19

35. In the number 152068, what is the value of the 2?
- a. 2000
 - b. 20000
 - c. 200
 - d. 2
 - e. 20
36. A square has a width of 7, what is the perimeter?
37. Write in standard notation: $(6 \times 1000) + (4 \times 10) + (3 \times 1)$
- a. 4360
 - b. 6043
 - c. 6340
 - d. 6430
 - e. 6043
38. Choose the answers below that are less than fifty-five 110th's.
- a. 50%
 - b. 25%
 - c. 49.99999%
 - d. .51019
 - e. .4987908907007
39. Which row of numbers is divisible by 3,4, and 6.
- a. 3, 12, 18, 36
 - b. 6, 12, 24, 30
 - c. 12, 24, 48, 99
 - d. 12, 24, 36, 48
40. Is the number 13 a prime or composite number?
- a. Prime
 - b. Composite
41. What is the measurement of this angle?



42. Round 914,471,752 to the nearest ten thousand.

- a. 913,470,000
- b. 914,471,000
- c. 914,470,000

43. $\frac{5}{6} \div \frac{7}{8} =$

44. Which fraction is equivalent to $\frac{7}{15}$?

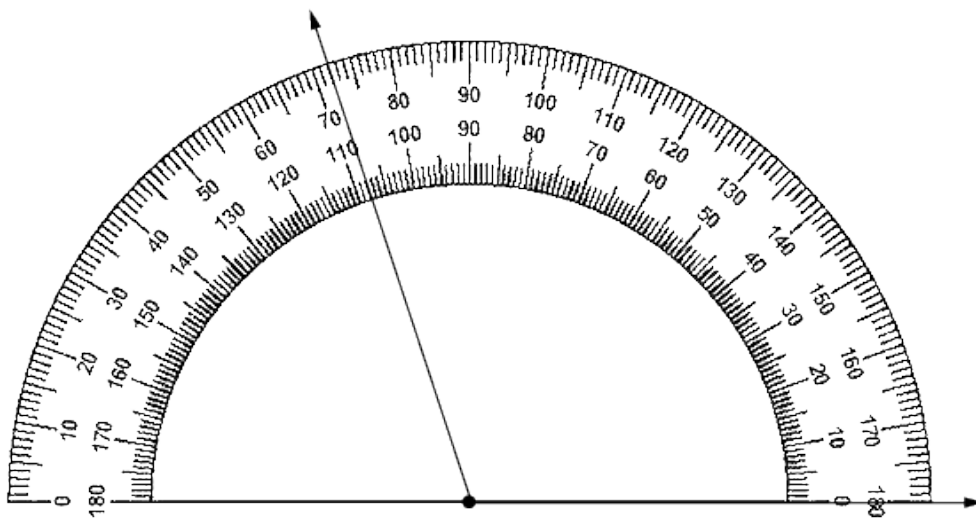
- a. $\frac{70}{150}$
- b. $\frac{14}{45}$
- c. $\frac{28}{80}$
- d. $\frac{56}{140}$

45. Which number is neither a prime number nor a composite number?

- a. 3
- b. 5
- c. 1
- d. 2

46. $3\frac{1}{2} * 2\frac{3}{4} =$

47. The measurement of this angle is 108 degrees.



- a. True
- b. False

48. $8 \overline{)576}$

49. Which list of terms best describes the number 16?

- a. even, deficient, composite
- b. odd, square, composite
- c. even, abundant, prime
- d. even, composite, square
- e. even, square, prime

50. $1\frac{2}{3} \div 2\frac{1}{4}$

51. Write the rate in the simplest form, choose the best answer:

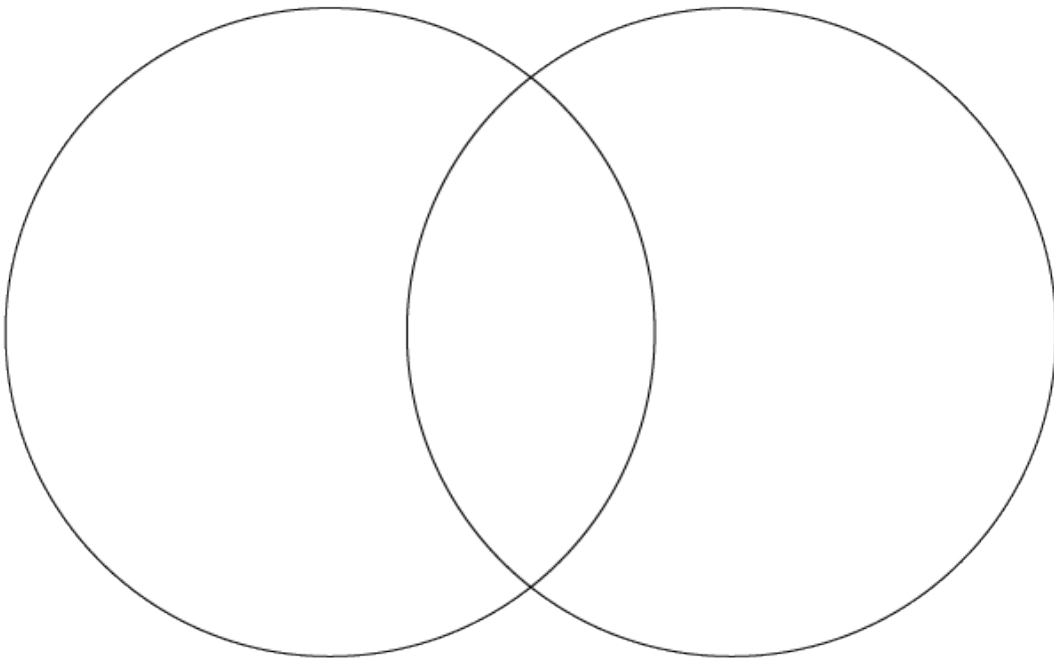
10 miles in 6 hours

- a. 10 miles/6 hours
- b. 10 miles/3 hours
- c. 5 miles/6 hours
- d. 5 miles/3 hours

52. $\frac{10}{100}$ is the same as saying 10 %

- a. True
- b. False

53. Complete the Venn Diagram to show all the factors for the numbers 24 and 36. List the GCF on the line below the diagram.



54. List the factors of each number. Circle the greatest common factor (GCF).

9
21

55. A B B C D D A C D D A A B

What is the ratio of Bs to Ds?

- a. 4 to 5
- b. 3 to 4
- c. 2 to 12
- d. 1 to 3

56. Find the GCF of 21 and 49.

57. What is the perimeter of a square with an area of 16?

- a. 8
- b. 10

c. 12

d. 16

58. $\sqrt{121}$

a. 6

b. 9

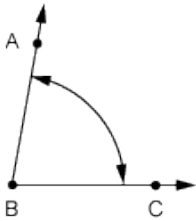
c. 11

d. 10

59. $24\% \text{ of } 50 =$

60. $-34 + (-22) =$

61. What type of angle is this?



62. $16 \overline{)1248}$

63. Rita had nine thousand, thirty-five items in her basement. Then she found some more items. Now she has ten thousand, eighty-one items. How many items did she find?

64. $456.98 + 234.98 =$

65. Find the reciprocal (in simplest form) of **4**

66. Forty kids stood patiently in each line. There were 35 lines of kids. How many kids were standing patiently

in all the lines?

67. What is the triangle inequality theorem?

68. Order the integers from least to greatest.

27, -13, 1, -4, 17

69. Convert the following from decimals to percents:

a) .07

b) .18

c) .2

d) .124

70. Ramona buys 2 cans of tennis balls. The total cost for both cans is \$10.30 Find the unit price of one can.

71. Hundreds of knights came to the tournament. Then four hundred twenty knights went home. Seven hundred fifty-six knights remained. How many knights came to the tournament?

72. Use cross products to solve the proportion

$$\frac{4}{9} = \frac{8}{g}$$

73. A baseball glove at the local sports store is regularly priced at \$22.00. It is on sale for 20% off. What is the amount that you save by buying the glove on sale?

74. Use words to write each number : 7000.065

75. One hundred students tried out for the school play. Twenty-two of the students got a part in the play. Write this ratio as a percent.
76. What is the missing number? $87 + ? = 130$
- a. 35
 - b. 50
 - c. 43
77. The science club had a fund-raising project so they could purchase a new microscope and telescope. They earned 75% of the \$500 needed. How much money did they earn?