Name: _____ Class: _____ Date: _____ ID: A

Summer Packet 6th to 7th

Short Answer

Draw models for the pair of decimals. Which number is greater?

1. 0.9 and 0.09

.

2. Last Wednesday it snowed $3\frac{1}{5}$ in. On Sunday it snowed $3\frac{1}{3}$ in. On which day did it snow more? How much more?

Find the LCM of the numbers.

3. 5, 11, 25

Compare the pair of numbers. Use <, =, or >.

4. $\frac{3}{4} \square \frac{22}{60}$

5. $\frac{2}{11} \square \frac{8}{44}$

Write the improper fraction as a mixed number in simplest form.

6. $\frac{65}{8}$

Write the decimal as a fraction or mixed number in simplest form.

7. 0.38

Write the fraction as a decimal.

8. $\frac{12}{25}$

Use >, =, or < to complete the statement.

9. 0.47 ▩ 0.64

10. 2.80 ▩ 2.8

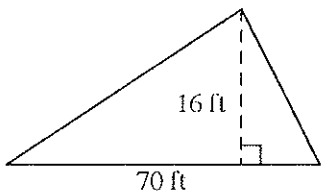
11. The sales tax rate is 6%. Find the tax paid for a coat that costs $60.

12. The stem-and-leaf plot shows the number of fish that were caught by several ships in a fishing fleet. How many ships caught 37 fish or fewer?

Stem	Leaves
3	0 3 3 5 6
4	0 2 4 5 8 9 9
5	0 1 2 4

key: 2 | 4 means 24

13. Find the area of the triangle.



Not drawn to scale

Estimate the sum or difference. Use the benchmarks 0, $\frac{1}{2}$, and 1.

14. $\frac{7}{8}+\frac{3}{20}$

Find the sum.

15. $\frac{1}{8} + \frac{1}{12}$

Estimate the sum or difference.

16. $12\frac{1}{8} - \frac{7}{8}$

Find the product.

17. 0.4×0.59

Find the quotient.

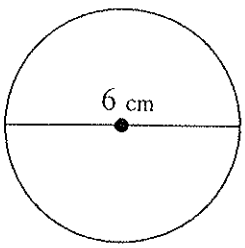
18. $\frac{2}{3} \div \frac{2}{5}$

19. $304 \div 20$

20. Find the area of the rectangle with length 40 inches and width 23 inches.

Find the area of the circle to the nearest tenth.

21.



$A = \pi r^2$

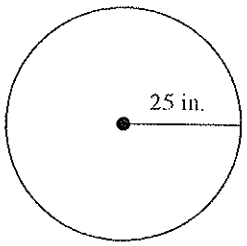
Order the numbers from least to greatest.

22. 0.065, 0.033, 0.049, 0.031

Name: _____ ID: A

Find the circumference of the circle with the given radius or diameter. Round to the nearest unit.

23.



$C = 2\pi r$

$C = \pi d$

Find the median of the data set.

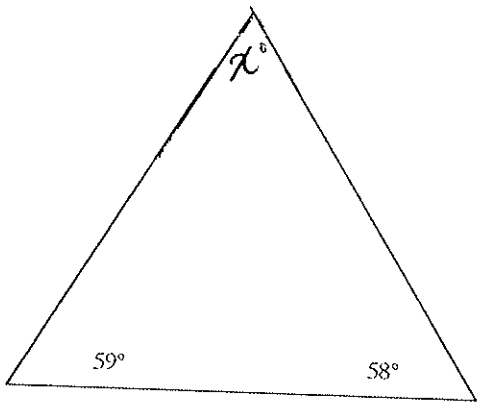
24. 3, 35, 23, 37, 45, 5, 49, 27, 48

25. A shop owner wants to market a new vest. The vest distributor will charge a reduced price for one size of the owner's choice. The owner knows that the size selected should be the mode of the sizes the shop sells. In one typical day, the shop owner sold the following sizes of vests:

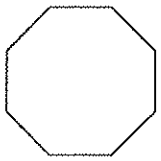
    40, 41, 41, 44, 44, 37, 38, 42, 41, 39, 44, 39, 37, 44, 42

    Find the mode of the sizes?

26. Find the value of x in the triangle.



27. Identify the polygon by the number of sides.



28. Ms. Carter recorded the number of sick days taken last year by each employee, as shown in the table.

Employee	Sick Days
Keisha	0
Chantal	1
Sarita	5
Grace	3
Shawn	3
Dimitri	3
Leah	0
Gregor	2
Anthony	2

What is the mean number of days employees were sick? Round to the nearest hundredth, if necessary.

29. A group of friends tested themselves to see how many times each person could hit a tennis ball against the wall without missing. The results are below:

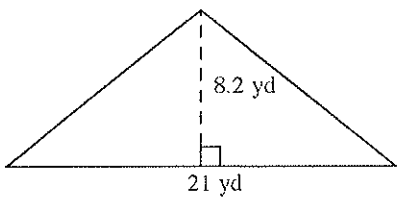
7 15 28 8 21 30 30 10

22 4 17 7 17 22 10 8

Find the range of the data set.

Find the area of the triangle.

30.



31. Find the perimeter of the rectangle with length 51 inches and width 38 inches.

Multiple Choice
Identify the choice that best completes the statement or answers the question.

Identify the fraction that is equivalent to the given fraction.

____ 32. $\frac{4}{9}$

a. $\frac{12}{27}$ b. $\frac{16}{27}$ c. $\frac{12}{18}$ d. $\frac{8}{27}$

____ 33. Write $5\frac{1}{3}$ as an improper fraction.

a. $\frac{11}{3}$ b. $\frac{13}{3}$ c. $\frac{16}{3}$ d. $\frac{17}{3}$

____ 34. Sarah is making her own Halloween costume. The costume requires $5\frac{1}{4}$ yards of materials. Write the number of yards needed for Sarah's Halloween costume as an improper fraction.

a. $\frac{5}{4}$ yards b. $\frac{7}{8}$ yards c. 7 yards d. $\frac{21}{4}$ yards

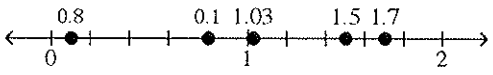
Write the improper fraction as a mixed number in simplest form.

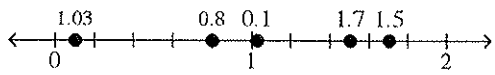
____ 35. $\frac{36}{8}$

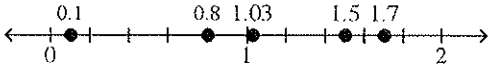
a. $4\frac{4}{8}$ b. $5\frac{1}{2}$ c. $4\frac{1}{8}$ d. $4\frac{1}{2}$

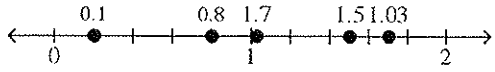
Order the set of numbers on a number line.

_____ 36. 0.8, 1.5, 1.7, 1.03, 0.1

a.


c.


b.


d.


Write the decimal or fraction as a percent.

_____ 37. $\frac{2}{5}$

a. 40% b. 400% c. 20% d. 200%

_____ 38. 0.23

a. 0.23% b. 0.023% c. 23% d. 2.3%

Write the percent as a decimal.

_____ 39. 4%

a. 0.04 b. 0.004 c. 4 d. 0.4

_____ 40. The table shows swimmers' times in a race. Which student swam the race the fastest?

SWIM RACE RESULTS	
Student	**Time (seconds)**
Chris	43.15
Pedro	42.96
Michael	42.3
John	43.85

a. Chris b. John c. Pedro d. Michael

Estimate the sum or difference.

____ 41. $9\frac{1}{3} + 2\frac{1}{18}$

a. 9 b. 11 c. 7 d. 2

Find the sum.

____ 42. $3\frac{2}{12} + 4\frac{4}{6}$

a. $1\frac{5}{7}$ b. $15\frac{2}{3}$ c. $\frac{6}{47}$ d. $7\frac{5}{6}$

____ 43. Gerri spends $\frac{3}{26}$ of her money on pencils and $\frac{10}{26}$ on paper. What fraction of her money does she spend? Give the answer in simplest form.

a. $\frac{3}{2}$ b. $\frac{1}{2}$ c. $\frac{7}{13}$ d. $\frac{13}{25}$

Find the difference.

____ 44. $\frac{4}{10} - \frac{1}{5}$

a. $\frac{6}{5}$ b. $\frac{4}{5}$ c. $\frac{1}{2}$ d. $\frac{1}{5}$

____ 45. $6 - 2\frac{3}{8}$

a. $8\frac{3}{8}$ b. $3\frac{5}{8}$ c. $2\frac{2}{3}$ d. $6\frac{3}{8}$

____ 46. Mrs. Peters bought $4\frac{3}{4}$ yards of fabric. She needs another $4\frac{3}{8}$ yards. How many yards of fabric does she need all together?

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

____ 47. Your puppy weighed $2\frac{1}{2}$ pounds last week. This week he weighs $6\frac{1}{8}$ pounds. How much weight has he gained?

a. $6\frac{1}{2}$ lb b. $8\frac{5}{8}$ lb c. $3\frac{5}{8}$ lb d. $\frac{3}{8}$ lb

Find the product. Simplify.

____ 48. $\frac{4}{9}$ of 36

a. 16 b. $\frac{1}{16}$ c. $\frac{40}{9}$ d. 8

Find the product.

____ 49. $1\frac{1}{3} \times 2\frac{1}{3}$

a. $3\frac{1}{9}$ b. $1\frac{2}{9}$ c. $3\frac{2}{3}$ d. $2\frac{1}{9}$

____ 50. 0.4(0.003)
a. 0.0012 b. 0.016 c. 0.0016 d. 0.012

____ 51. 7.28×2.6
a. 7.462 b. 18.928 c. 20.332 d. 14.56

____ 52. You are making scarves for presents. Each scarf needs $\frac{3}{4}$ yd of fabric. How many yards of fabric do you need for 7 scarves?

a. $9\frac{1}{3}$ yd b. $5\frac{1}{4}$ yd c. $10\frac{2}{3}$ yd d. 6 yd

____ 53. Find the reciprocal of $\frac{2}{11}$.

a. 2 b. 11 c. $\frac{9}{11}$ d. $\frac{11}{2}$

Find the quotient.

____ 54. $32 \div \frac{4}{9}$

a. $\frac{1}{72}$ b. $\frac{128}{9}$ c. 72 d. $\frac{9}{128}$

____ 55. $16\frac{1}{2} \div 5\frac{1}{2}$

a. $\frac{4}{11}$ b. 3 c. $90\frac{3}{4}$ d. $\frac{1}{3}$

____ 56. $5.7\overline{)21.09}$

a. 0.27 b. 3.5 c. 4.2 d. 3.7

____ 57. You have $14\frac{2}{7}$ grams of a substance and want to divide it into vials of $2\frac{1}{7}$ grams each. Estimate how many vials you can fill.

a. 9 vials b. 7 vials c. 10 vials d. 8 vials

____ 58. The table shows swimmers' times in a race. Which student swam the race the fastest?

SWIM RACE RESULTS

Student	Time (seconds)
Chris	33.4
Pedro	33.5
Michael	32.6
John	33.96

a. Chris b. John c. Pedro d. Michael

____ 59. First estimate and then find 6.234 + 7.4 + 3.67.

a. 17; 17.079 b. 10; 9.764 c. 21; 20.904 d. 17; 17.304

First estimate and then find the difference.

____ 60. 17 – 0.34

a. 18.34 b. 17; 16.66 c. 16; 15.66 d. 17; 17.34

____ 61. 2.4 – 1.3
a. 2; 2.1 b. 4; 3.7 c. 1; 1.1 d. 0; 0.1

____ 62. Manny has $75.59 in his savings account. He takes out $12.15. How much money does he have left in the account?
a. $63.45 b. $63.44 c. $85.72 d. $87.74

Use mental math to find the product.

____ 63. 100(6.3)
a. 0.63 b. 63 c. 630 d. 0.063

Use mental math to find the quotient.

____ 64. 2,386.7 ÷ 100
a. 238.67 b. 2.3867 c. 238,670 d. 23.867

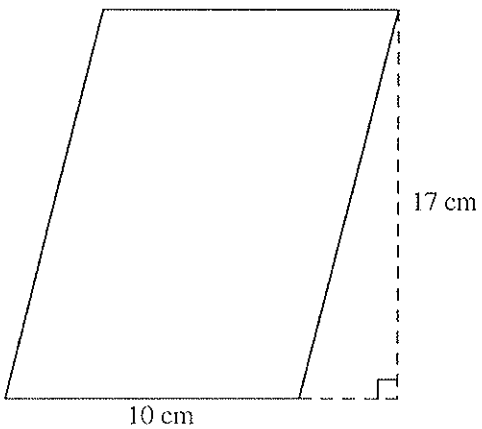
____ 65. 356.92 ÷ 1,000
a. 35,692 b. 3.5692 c. 35.692 d. 0.35692

Find the quotient. Identify the quotient as a terminating or repeating decimal.

____ 66. 15 ÷ 8
a. 0.625; repeating
b. 1.9; terminating
c. $1.875\overline{3}$; repeating
d. 1.875; terminating

____ 67. Find 70% of 48.
a. 32.6 b. 35.6 c. 33.6 d. 34.6

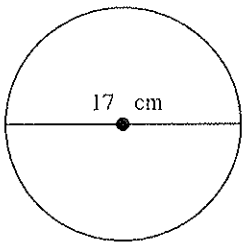
____ 68. Find the area of the parallelogram.



Not drawn to scale
a. 54 cm^2 b. 85 cm^2 c. 170 cm^2 d. 27 cm^2

Find the circumference of the circle with the given radius or diameter. Round to the nearest unit.

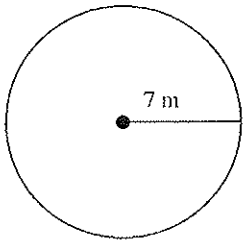
____ 69.



a. 53 cm b. 227 cm c. 20 cm d. 27 cm

Find the area of the circle to the nearest tenth.

____ 70.



a. 44 m^2 b. 153.9 m^2 c. 615.8 m^2 d. 38.5 m^2

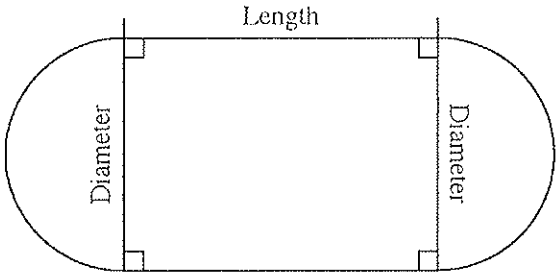
____ 71. Find the area of the circle with radius 27.7 to the nearest hundredth. Use 3.14 for π.

a. 7,565.17 square units
b. 1,204.65 square units
c. 9,637.16 square units
d. 2,409.29 square units

____ 72. A particular model of walkie-talkie can broadcast in a circular area. The radius of the broadcast area is 10,000 feet. Find the area of this circle to the nearest square foot. Use 3.14 for π.

a. 314,000,000 ft^2
b. 100,000,000 ft^2
c. 1,256,000,000 ft^2
d. 62,800 ft^2

____ 73. A field is to be fertilized at a cost of $0.08 per square yard. The rectangular part of the field is 95 yards long and the diameter of each semicircle is 49 yards. Find the cost of fertilizing the field. Use 3.14 for π.



a. $3,923.87 b. $420.42 c. $975.53 d. $523.18

____ 74. The stem-and-leaf plot shows the number of cans of food collected by various students for a food drive. How many students collected more than 43 cans?

Stem	Leaves
3	0 1 1 1 4 4 4
4	0 1 3 4 4 5
5	0 3 3 6 8

key: 3 | 5 means 35

a. 5 b. 9 c. 7 d. 8

____ 75. Bob's scores on his first 4 history tests were 55, 85, 58 and 77. To the nearest whole number, what is the mean of these scores?

a. 50 b. 55 c. 69 d. 48

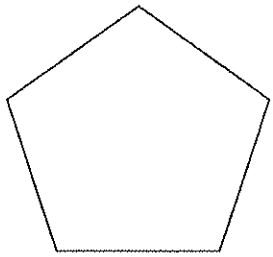
____ 76. Mike was in charge of collecting contributions for the Food Bank. He received contributions of $13, $34, $26, $31, and $28 from five co-workers. Find the median value of these contributions.

a. $31 b. $28 c. $26 d. $30

____ 77. Find the mean of the set of data: 46, 42, 42, 45, 6, 33, 26, 40

a. 42 b. 35 c. 30 d. 41

____ 78. How many lines of symmetry does the figure have?



a. 4 b. 5 c. 10 d. 7

Classify the angle as *acute*, *right*, *obtuse*, or *straight*.

____ 79. The measure of angle *A* is 90°.
a. straight b. obtuse c. acute d. right

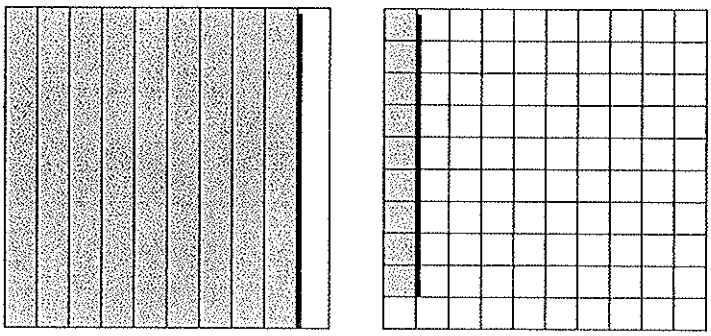
____ 80. Find the sum of the measures of the angles of the figure.

a. 540 b. 720 c. 360 d. 1080

Summer Packet 6th to 7th
Answer Section

SHORT ANSWER

1. Answers may vary. Sample:



0.9 is greater.

2. Sunday; $\frac{2}{15}$ in.
3. 275
4. $\frac{3}{4} > \frac{22}{60}$
5. $\frac{2}{11} = \frac{8}{44}$
6. $8\frac{1}{8}$
7. $\frac{19}{50}$
8. 0.48
9. <
10. =
11. $3.30
12. 5
13. 560 ft²
14. 1
15. $\frac{5}{24}$
16. 11
17. 0.236
18. $\frac{5}{3} = 1\frac{2}{3}$
19. 15.2
20. 920 in.²
21. 28.3 cm²
22. 0.031, 0.033, 0.049, 0.065
23. 157 in.
24. 35
25. 44
26. 63°
27. octagon
28. 2.11 days
29. 26
30. 86.1 yd²
31. 178 in.

MULTIPLE CHOICE

32. A
33. C
34. D
35. D
36. B
37. A
38. C
39. A
40. D
41. B
42. D
43. B
44. D
45. B
46. B
47. C
48. A
49. A
50. A
51. B
52. B
53. D
54. C
55. B
56. D
57. B
58. D
59. D
60. B
61. C
62. B
63. C
64. D
65. D
66. D
67. C
68. C
69. A
70. B
71. D
72. A
73. D
74. D
75. C
76. B
77. B
78. B
79. D
80. C