Summer Packet

Math 7

Note: You should be completing this packet if you completed Math 7 or Math 7 CPM this past year and will be taking Pre-Algebra starting Fall 2010.

Name _____

4. Follow the directions to complete the problems in the packet.
5. Show all your work.
6. Circle your final answer.

MATH 7

SUMMER

MATH PACKET

Name _____

Date _____

This test contains 60 multiple-choice questions. Work each problem in the space on this page. Select the best answer. Write the letter of the answer on the blank at the right.

Part 1

1. Which set of numbers is in order from least to greatest? 1. _____
   a. 721, 691, 522, 718, 709
   b. 522, 691, 718, 709, 721
   c. 522, 691, 709, 718, 721
   d. 721, 691, 522, 718, 709

2. What is 8,342 rounded to the nearest hundred? 2. _____
   a. 8,340
   b. 8,300
   c. 8,400
   d. 8,000

3. 354 + 78 = ? 3. _____
   a. 322
   b. 332
   c. 422
   d. 432

4. 402 − 49 = ? 4. _____
   a. 353
   b. 363
   c. 451
   d. 453

5. A color printer can print six pages per minute. How long will it take to print 24 pages? 5. _____
   a. 2.4 min
   b. 3 min
   c. 4 min
   d. 6 min

6. Two classes set a goal of collecting a total of 500 cans for the food drive. Mr. Hart's class collected 123 cans. Ms. Zani's class collected 237 cans. How many more cans are needed to reach the goal?

   a. 114
   b. 140
   c. 263
   d. 360

6. _____

Part 2

7. $8.4 - 3.73 =$?

   a. 3.11
   b. 4.67
   c. 4.77
   d. 5.1

7. _____

8. $3.2 \times 4.5 =$?

   a. 0.144
   b. 1.44
   c. 14.4
   d. 144

8. _____

9. $4.8 \div 20 =$?

   a. 0.24
   b. 2.4
   c. 24
   d. 96

9. _____

10. Which improper fraction is equivalent to $2\frac{3}{5}$?

    a. $\frac{6}{5}$
    b. $\frac{10}{5}$
    c. $\frac{13}{5}$
    d. $\frac{17}{5}$

10. _____

11. Which decimal is equivalent to the fraction $\frac{7}{100}$? 11. _____

a. 0.007
b. 0.07
c. 0.7
d. 7.0

12. Which fraction is equivalent to 0.3? 12. _____

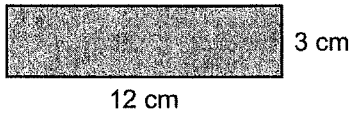
a. $\frac{0.3}{10}$
b. $\frac{3}{100}$
c. $\frac{3}{10}$
d. $\frac{30}{10}$

13. $23.7 \times 100 =$? 13. _____

a. 0.237
b. 2.37
c. 237
d. 2370

14. What is the area of the rectangle below? 14. _____

a. 4 cm^2
b. 15 cm^2
c. 21 cm^2
d. 36 cm^2



15. Which number is greater than 0.7? 15. _____

a. 0.15
b. 0.65
c. 0.09
d. 0.72

16. Which decimal represents $\frac{3}{5}$? 16. _____

a. 0.03
b. 0.3
c. 0.06
d. 0.6

17. Keira was paid \$2.50, \$3.75, and \$4 for baby-sitting on three evenings. What is the total amount she earned baby-sitting? 17. _____

a. \$7.29
b. \$9.25
c. \$9.80
d. \$10.25

18. Tom had an 8-foot piece of rope. He used $5\frac{1}{2}$ feet of rope to tie a young tree to a stake. How much rope was left over? 18. _____

a. $2\frac{1}{2}$ ft
b. $3\frac{1}{2}$ ft
c. $4\frac{1}{2}$ ft
d. $5\frac{1}{2}$ ft

Part 3

19. If $x = 10.05 - 2.4$, then $x =$ ___?___ 19. _____

a. 7.65
b. 8.1
c. 8.65
d. 9.81

20. If the British unit of money, the pound, is worth 1.45 dollars (\$1.45), what is the value of 220 pounds? 20. _____

a. \$31.90
b. \$319.00
c. \$580.00
d. \$3190.00

21. If $t = 8.4 \div 2.4$, then $t =$ ___?___ 21. _____

a. 0.35
b. 0.45
c. 3.5
d. 4.5

22. What is the least common denominator (LCD) of $\frac{3}{4}$ and $\frac{1}{6}$? 22. _____

a. 2
b. 10
c. 12
d. 24

23. Which decimal is equivalent $10\frac{5}{100}$? 23. _____

a. 10.005
b. 10.05
c. 10.5
d. 15

24. Which number expresses 2.75 as a mixed number in simplest form? 24. _____

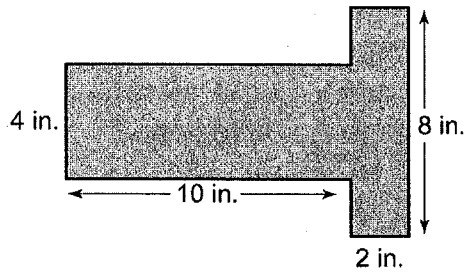
a. $2\frac{3}{4}$
b. $2\frac{15}{20}$
c. $2\frac{75}{100}$
d. $2\frac{75}{10}$

25. $0.47 \times 10^3 =$ ___?___ 25. _____

a. 0.047
b. 4.7
c. 47
d. 470

26. What is the area of the figure below? 26. _____

a. 24 in^2
b. 46 in^2
c. 56 in^2
d. 640 in^2



27. Which list of decimals is in order from least to greatest? 27. _____

a. 0.1, 0.14, 0.05, 0.08, 0.32
b. 0.1, 0.05, 0.08, 0.14, 0.32
c. 0.1, 0.05, 0.08, 0.14, 0.32
d. 0.05, 0.08, 0.1, 0.14, 0.32

28. Which number represents one hundred three and eighteen thousandths? 28. _____

a. 130.18
b. 103.18
c. 103.018
d. 103.0018

29. Sara bought a paperback book for $7.79. She gave the clerk a $10 bill. About how much change should she get? 29. _____

a. $1
b. $2
c. $3
d. $4

30. Rene is making a border across the top of a bulletin board that is 51 inches long. She uses pieces of red paper that are $8\frac{1}{2}$ inches long, placed end to end. How many pieces of paper will she need? 30. _____

a. 4
b. 6
c. $42\frac{1}{2}$
d. $59\frac{1}{2}$

Part 4

31. $7.6 - 5.88 =$?

a. 1.72
b. 1.82
c. 2.72
d. 2.88

31. _____

32. $0.8 \times 0.15 =$?

a. 0.012
b. 0.12
c. 1.2
d. 12

32. _____

33. $18.6 \div 3.1 =$?

a. 0.06
b. 0.6
c. 6
d. 60

33. _____

34. Which number is equivalent to $\frac{36}{8}$?

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

34. _____

35. Which decimal is equivalent to the fraction $\frac{80}{1{,}000}$?

a. 0.008
b. 0.080
c. 0.800
d. 8.000

35. _____

36 Which fraction is equivalent to 0.07? 36 _____

a. $\frac{0.7}{100}$

b. $\frac{7}{1{,}000}$

c. $\frac{7}{100}$

d. $\frac{70}{10}$

37. Which number is less than 0.08? 37. _____

a. 0.7

b. 0.16

c. 0.083

d. 0.075

38 Which decimal represents $1\frac{5}{8}$? 38 _____

a. 0.625

b. 1.4

c. 1.625

d. 1.6

39. A bamboo plant can grow 35.4 inches per day. About how many inches can it grow in an hour? 39. _____

a. 0.7

b. 1.5

c. 3

d. 11.4

40. 100 centimeters = 1 meter. How many centimeters are there in 0.36 meters? 40. _____

a. 3.6

b. 13

c. 36

d. 360

Part 5

41. Which fraction is equivalent to $\frac{2}{5}$? 41. _____

a. $\frac{7}{10}$

b. $\frac{12}{15}$

c. $\frac{5}{25}$

d. $\frac{12}{30}$

42. Which statement is true? 42. _____

a. $\frac{1}{2} < \frac{1}{4}$

b. $\frac{1}{3} > \frac{5}{6}$

c. $\frac{3}{4} > \frac{1}{3}$

d. $\frac{2}{3} < \frac{1}{5}$

43. $5 + 3 \cdot 8 =$? 43. _____

a. 16

b. 19

c. 29

d. 64

44. Which decimal has the same value as $\frac{7}{20}$? 44. _____

a. 0.035

b. 0.07

c. 0.28

d. 0.35

45. José is 173 centimeters tall. What is his height in meters? 45. _____

a. 0.0173 m

b. 0.173 m

c. 1.73 m

d. 17.3 m

46. Which statement shows the commutative property of multiplication? 46. _____

a. $5 \times \frac{1}{5} = 1$

b. $5 \times 3 = 3 \times 5$

c. $5 \times (3 \times 2) = (5 \times 193) \times 2$

d. $5(3 + 2) = 5 \times 3 + 5 \times 2$

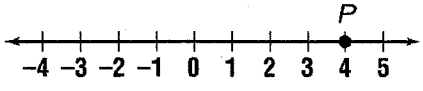
47. For the integer marked P on the number line, what is its opposite? 47. _____

a. -4

b. 0

c. 1

d. 4



48. If $x = 3$ and $y = 2$, then $2x - y =$ ___?___. 48. _____

a. 1

b. 2

c. 3

d. 4

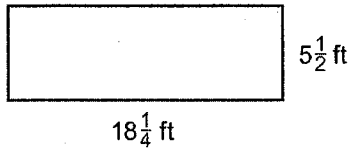
49. How much fencing will be needed to fence the garden in the diagram below? 49. _____

a. $23\frac{3}{4}$ ft

b. $29\frac{1}{4}$ ft

c. $47\frac{1}{2}$ ft

d. $58\frac{1}{2}$ ft



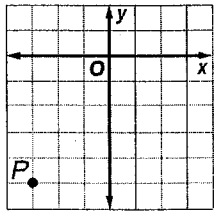
50. What are the coordinates of the point labeled P? 50. _____

a. $(-5, -5)$

b. $(-3, -5)$

c. $(5, -3)$

d. $(-3, 5)$



51. Which expression is equivalent to $1.5 \times (2.2 \times 3.9)$?

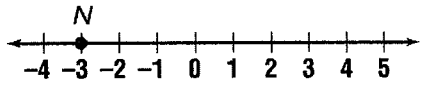
51. _____

a. $(1.5 \times 2.2) + (2.2 \times 3.9)$
b. $1.5 \times (2.2 + 3.9)$
c. $1.5 + (2.2 \times 3.9)$
d. $(1.5 \times 2.2) \times 3.9$

52. For the integer marked N on the number line, which set lists the integer, its opposite, and its absolute value in order?

52. _____

a. $\{-3, 3, -3\}$
b. $\{-3, 3, 3\}$
c. $\{-3, -3, 3\}$
d. $\{3, -3, 3\}$



53. If $r = 4$, $s = 7$, and $t = 2$ then $\frac{t(r+s)-s}{r+1} =$ ____?____.

53. _____

a. $\frac{8}{5}$
b. 3
c. 15
d. 22

54. Which has the greater perimeter, a square with side 8 units or a rectangle with length 14 units and width 2 units?

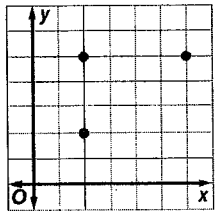
54. _____

a. the square
b. the rectangle
c. the perimeters are equal
d. It cannot be determined.

55. The points (2, 5), (2, 2), and (6, 5) are three vertices of a rectangle. What are the coordinates of the fourth vertex?

55. _____

a. (2, 6)
b. (4, 2)
c. (5, 2)
d. (6, 2)



Part

56. Which list contains three equivalent fractions? 56 _____

a. $\frac{1}{2}, \frac{3}{8}, \frac{7}{12}$

b. $\frac{2}{3}, \frac{16}{24}, \frac{6}{9}$

c. $\frac{1}{3}, \frac{3}{12}, \frac{11}{30}$

d. $\frac{1}{4}, \frac{2}{8}, \frac{5}{10}$

57. Which number is closest to 2? 57 _____

a. $2\frac{6}{15}$

b. $1\frac{4}{5}$

c. $2\frac{3}{5}$

d. $1\frac{14}{15}$

58. $3(4 + 6) \div 6 =$ ___?___ 58 _____

a. 3

b. 5

c. 10

d. 12

59. Which percent is equivalent to $\frac{8}{25}$? 59 _____

a. 8%

b. 12%

c. 32%

d. 80%

60. What is the greatest common factor (GCF) of 36, 72, and 90? 60 _____

a. 4

b. 9

c. 18

d. 36