SUMMER PACKET

UPCOMING 6TH GRADE MATH

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Happy Summer, Everyone!

I feel immensely excited and blessed to be your 6th grade math teacher. This math packet was designed to allow you the opportunity to review some concepts over the summer - and to show me which concepts we might still need to review.

Please show all of your work and be as neat as possible. I am not interested in perfection, but effort! I think that all of you will do a great job and I thank you in advance!

Wishing you and your families a fabulous, safe summer!

Blessings,

Mrs. Thornton

Summer Math Packet 5th into 6th

1) Which property of multiplication is used in the following equation?

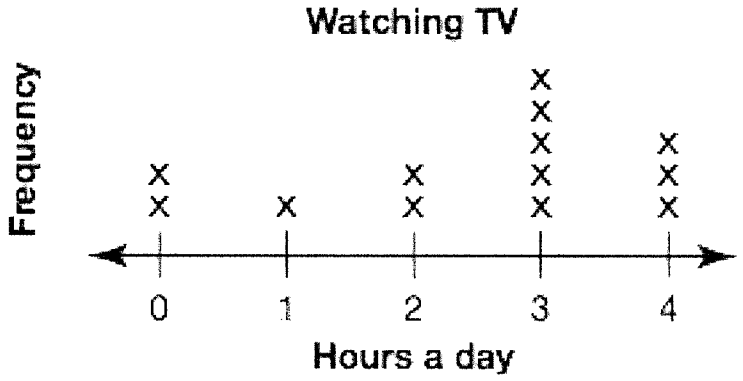
$$7 \times 1 = 7$$

a) Zero Property
b) Identity Property
c) Commutative Property
d) Associative Property

2) Find the product in the problem below.

$$1.25 \times 0.28$$

3) How many people spent 3 or more hours a day watching TV?



a) 8
b) 10
c) 2
d) 13

4) The Johnsons sold 14 bushels of corn in 1 hour at a local farmer's market. If 1 bushel weighs 56 pounds, how many ounces does 1 bushel weigh?

1 pound = 16 ounces

a) 896 ounces
b) 720 ounces
c) 420 ounces
d) 128 ounces

5) The length of an alligator in a zoo is $14\frac{5}{8}$ feet. The Everglades National Park lists the largest alligator ever recorded in Florida at $17\frac{5}{12}$ feet long. What is the difference in their lengths?

6) Divide $621 \div 84$.

a) 8 R1
b) 7 R33
c) 7 R12
d) 7

7) Find the quotient: $37.7 \div 5.2$.

a) 7.25
b) 0.725
c) 72.5
d) 725

8) Ernie walked $1\frac{1}{4}$ miles from his cabin to a park, then $1\frac{1}{2}$ miles around the park, and then back to his cabin. How many miles did he walk?

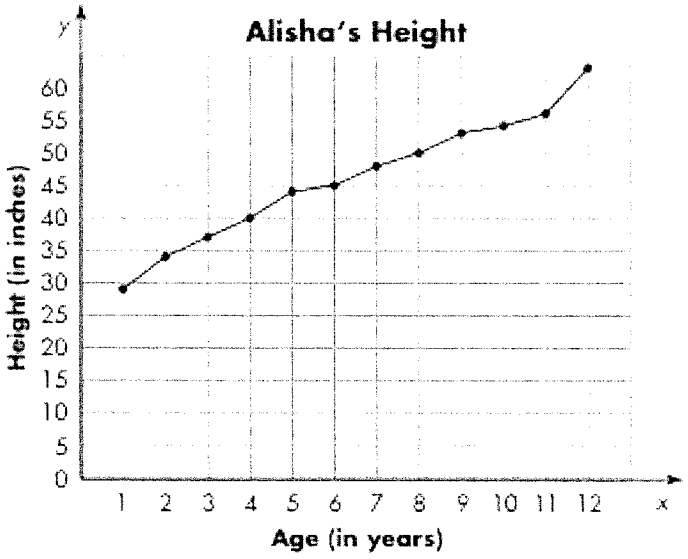
9) Which solid figure has 6 square faces?

a) Cone
b) Cube
c) Square pyramid
d) Triangular prism

10) The number of innings in a regular baseball game is 9. What is this number in exponential notation?

a) 3^2
b) 3^3
c) 9^2
d) 3^9

11) Alisha's doctor keeps a record of her height. At her last appointment, the doctor made a line graph to show Alisha how her height has changed over the years.



Between which two ages did Alisha's height increase the most?

a) 1 to 2
b) 4 to 5
c) 8 to 9
d) 11 to 12

12) Find the product of 547 x 16.

13) Carolina sees the problem below on her math homework.

$$\frac{2}{5} \times \frac{3}{5} =$$

a) $\frac{1}{25}$

b) $\frac{6}{25}$

c) $\frac{9}{25}$

d) $\frac{9}{10}$

14) What type of quadrilateral is shown below?



a) Trapezoid
b) Parallelogram
c) Rectangle
d) Rhombus

15) Find the quotient: 18.65 ÷ 10.

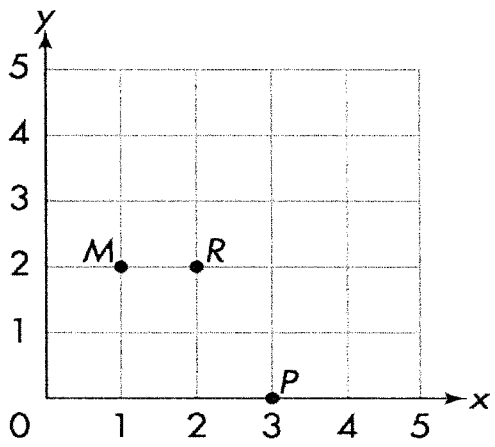
a) 186.5
b) 18.65
c) 1.865
d) 0.1865

16. Mr. Garcia and his 30 students are collecting soup labels to help buy classroom equipment. The total number of labels collected can be found by evaluating the expression $30l + 15$. If $l = 5$, what is the value of the expression?

a) 75
b) 150
c) 165
d) 320

17. Name the coordinates of Point *M*.

a) (1, 2)
b) (2, 1)
c) (2, 2)
d) (1, 3)



18. Find the difference: 6.35 – 2.59.

19. Round 45, 62<u>9</u>, 741 to the place of the underlined digit.

a) 45, 630, 000
b) 45, 629, 700
c) 45, 629, 000
d) 45, 600, 000

20. The leg of an average human has a femur, or thigh bone, that is 48 centimeters long. What is this length I millimeters?

1 cm = 10 millimeters

a) 48 millimeters
b) 480 millimeters
c) 1, 480 millimeters
d) 14, 800 millimeters

21. Last night, Erin completed $\frac{5}{6}$ of the homework assignment. Tom completed $\frac{1}{3}$ of the same assignment. How much more of the assignment did Erin complete?

22. Find the volume of a rectangular prism that has a base area of 36 cm^2 and a height of 12 *cm.*

a) 48 cm^3
b) 360 cm^3
c) 432 cm^3
d) 480 cm^3

23. Emily jogged $\frac{7}{10}$ mile and sprinted $\frac{1}{10}$ mile. In simplest form, how much farther did she jog than sprint?

a) $\frac{6}{10}$ mile

b) $\frac{4}{5}$ mile

c) $\frac{7}{10}$ mile

d) $\frac{3}{5}$ mile

24. A hockey team played 9 home games. The same number of people came to each game. If the total attendance for the 9 games was 27,000, how many people came to each game?

a) 30
b) 300
c) 3,000
d) 30,000

Estimate the quotient.

25. $37 \div 5$

26. $77 \div 4$

27. Your school's science club is making gift baskets to sell. The club has 350 individually wrapped soaps to put into the gift baskets. The club wants to put 3 soaps in each gift basket. How many gift baskets can the club make?

Divide.

28. $266 \div 14$

29. $440 \div 22$

Add or Subtract.

30. $3.3 + 4.2$

31. $5.8 - 2$

32. $\frac{2}{8} + \frac{3}{8}$

33. $\frac{1}{3} - \frac{1}{4}$

Round to the nearest tenth.

34. 2.33
35. 3. 37
36. 12.68

Complete the statement with $<$, $>$, or $=$.

37. 3.51 _____ 0.351

38. 2.3 _____ 2.30

39. 8.23 _____ 8.236

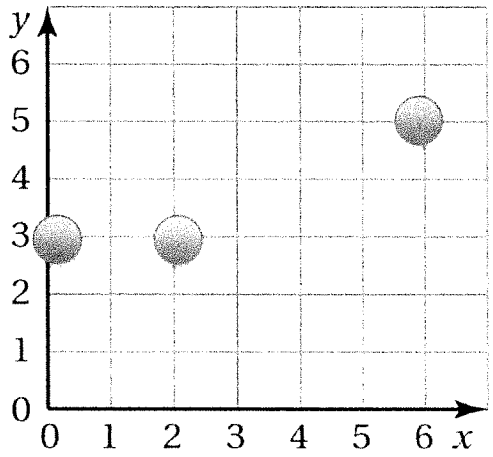
40. 9.234 _____ 9.34

Identify the ordered pair for each point in the coordinate plane.

41. A

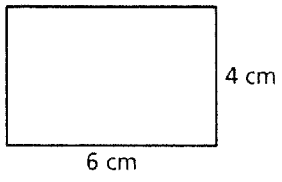
42. B

43. C

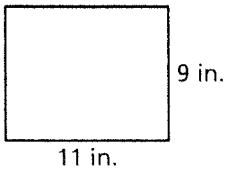


Find the area of the rectangle.

44.

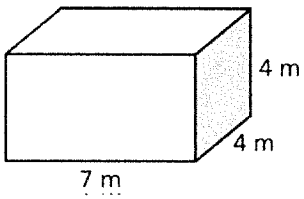


45.

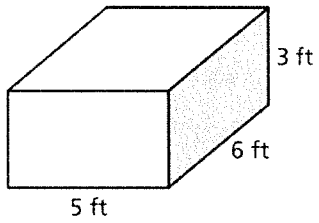


Find the volume of the rectangular prism.

46.



47.



Tell whether the number is *prime or composite.*

48. 11

49. 35

50. 41

Multiply.

51. 21×6

52. 23×15

Simplify the expression.

53. $13 - 2 \times 4$
   a) 44
   b) 5
   c) 3
   d) 45

54. $3 \times (3 + 9)$
   a) 35
   b) 36
   c) 17
   d) 18

55. $(6 + 6) + 4 \times 7$
   a) 112
   b) 280
   c) 40
   d) 50

56. Julius was asked to divide 833 marbles into four bags. How many marbles will be in each bag?

a) 28 with 1 left over
b) 207 with 5 left over
c) 208
d) 208 with 1 left over

57. In 2000, Texas contained 79.6 people per square mile. What information do you need to find how many people lived in the state of Texas.

a) The number of square miles per each person.
b) The number of square miles in Texas
c) The number of square miles in the United States.
d) There is enough information to solve the problem.

58. Donovan spent $5.75 at the fruit stand. He bought 3 apples and 2 oranges. He spent the rest of the money on bananas. How many bananas did Donovan buy?

a) 1 banana
b) 2 bananas
c) 3 bananas
d) 4 bananas

Fruit Stand	
Fruit	Price
Apple	$0.75 ea.
Banana	$0.25 ea.
Orange	$1.25 ea.

59. A state flag costs $7.99. Sarit wants to buy 5 flags What is the total cost of the flags?

a) $12.99
b) $35.55
c) $38.95
d) $39.95

60. What are the missing values in the table below?

z	10	15	20	25
$z-4$	6	11		

a) 21, 31
b) 16, 21
c) 15, 19
d) 6,11

61. Which expression represents the phrase "13 less than the current amount"?

a) $13 - n$
b) $n + 13$
c) $n - 13$
d) $n \div 13$

62. Which algebraic expression represents the table below?

a) $k \div 3$
b) $k + 6$
c) $3 \times k$
d) $3 \div k$

k	?
3	9
5	15
7	21
9	27

63. What values complete the table?

x	3	6		12	15
y	9	12	15		21

a) 7, 16
b) 9, 18
c) 10, 18
d) 9, 19

64) What is 10,483,190 in word form?

a) Ten billion, four hundred eighty-three million, one hundred ninety thousand
b) Ten million, four hundred eighty-three, one hundred ninety
c) Ten million, four hundred thousand eighty-three, one hundred ninety
d) Ten million, four hundred eighty-three thousand, one hundred ninety

65) Sara needs to buy a gallon of milk for $3.98, a dozen eggs for $2.75 and paper towels for $3.87. Sara said she needs $10 to pay for all the items. Is her answer reasonable?

a) Yes, her answer is reasonable.
b) No, $10 is too much money.
c) No, $10 is not enough money.
d) No, there is not enough information to verify the reasonableness.

66) Solve the problem below.

$$83.04 - 7.06 =$$

a) 12.37
b) 75.73
c) 75.98
d) 75.97

67) Patsy multiples a number by zero. Which of the following statements is true about her answer?

a) Her answer is zero.
b) Her answer is one.
c) Her answer is less than zero.
d) There is not enough information to make a statement about her answer.

68) What is 8^3 written in standard form.

a) 24
b) 64
c) 512
d) 4,096

69) Which multiplication property does the equation below represent?

$$7 \times (9 \times 2) = (7 \times 9) \times 2$$

a) Commutative Property
b) Identity Property
c) Associative Property
d) Zero Property

70) Which expression shows how you can solve 7 x 63 using mental math?

a) (7 x 6) + (7 x 3)
b) (7 x 60) + (7 x 3)
c) (7 x60) + (7 x 30)
d) (7 x 60) x (7 x 3)

71) There are 24 stanzas in a song for the school play. Samantha has memorized $\frac{3}{4}$ of them so far. How many stanzas has she memorized?

a) 8 stanzas
b) 12 stanzas
c) 18 stanzas
d) 24 stanzas

72) What is the least common denominator for $\frac{1}{6}$ and $\frac{3}{8}$?

73) Which improper fraction represents $3\frac{3}{4}$?

a) $\frac{2}{4}$ b) $\frac{6}{4}$

c) $\frac{9}{4}$ d) $\frac{15}{4}$

74) What is the least common multiple of 8 and 12?

a) 24
b) 4
c) 12
d) 3