Name: _____ Date:_____

6th Grade Math Test Prep Recording Sheet

Please record your answers below. Use A, B, C, or D

1.	15.	29.	43.
2.	16.	30.	44.
3.	17.	31.	45.
4.	18.	32.	46.
5.	19.	33.	47.
6.	20.	34.	48.
7.	21.	35.	49.
8.	22.	36.	50.
9.	23.	37.	51.
10.	24.	38.	52.
11.	25.	39.	53.
12.	26.	40.	54.
13.	27.	41.	55.
14.	28.	42.	56.

Math Test Prep - 6th Grade

1. $\frac{3}{4} \div 6 =$

A. $4\frac{1}{2}$

B. 8

C. $\frac{3}{4}$

D. $\frac{1}{8}$

6.NS.1

4. The classroom is 8 yards long. What is the length in inches?

A. 8 inches

B. 96 inches

C. 288 inches

D. 64 inches

6.RP.3d

2. Henry paid $3.50 to download 5 songs. What is the unit rate?

A. $0.70 / song

B. $1.42 / song

C. $17.50 / song

D. $0.50 / song

6.RP.2

5. 82.1 + 3.78 =

A. 8.588

B. 85.88

C. 11.99

D. 119.9

6.NS.3

3. Which event could be represented by the integer -10?

A. Depositing $10 into your bank account.

B. Adding 10 songs to your playlist.

C. Losing 10 yards on the play.

D. Jumping up 10 feet on a trampoline.

6.NS.5

6. What is the ratio of squares to circles?

A. 3:1

B. 1:3

C. 3:4

D. 1:4

6.RP.1

Math Test Prep - 6th Grade

7. $9 \div 3.6 =$

A. 24

B. 2.4

C. 25

D. 2.5

6.NS.3

10. The city's elevation is 15.3 feet below sea level. Between which 2 integers is this elevation?

A. 15 and 16

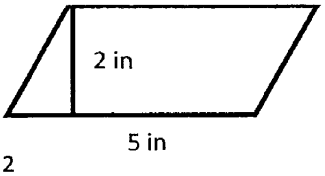
B. -15 and -16

C. 0 and 15

D. -15 and 0

6.NS.6a

8. What is the area of this parallelogram?



A. 5 in^2

B. 10 in^2

C. 25 in^2

D. 7 in^2

6.G.1

11. What is 25% of 60?

A. 1,500

B. 15

C. 24

D. 2.4

6.RP.3c

9. Write an algebraic expression for 3 times the sum of y and 5.

A. $3 \times (y + 5)$

B. $3 \times y + 5$

C. $3 \times (y - 5)$

D. $3 \times (3y)$

6.EE.2a

12. $5x = 25$. Solve for x.

A. $x = \frac{1}{5}$

B. $x = 5$

C. $x = 1$

D. $x = 20$

6.EE.7

Math Test Prep - 6th Grade

13. What is the prime factorization of 210?

A. 2 x 3 x 5 x 7

B. 5 x 6 x 7

C. 2 x 2 x 5 x 7

D. 3 x 4 x 5

6.NS.4

16. If $x = 4$, evaluate the expression $x^2 - 3$.

A. -5

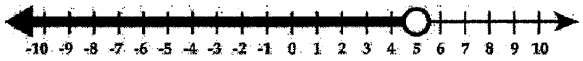
B. 5

C. -13

D. 13

6.EE.2c

14. Which inequality is shown below?



A. $x > 5$

B. $x \geq 5$

C. $x < 5$

D. $x \leq 5$

6.EE.8

17. Order from least to greatest

$$\frac{1}{4}, 0.2, \frac{1}{2}$$

A. $\frac{1}{4}, 0.2, \frac{1}{2}$

B. $\frac{1}{2}, \frac{1}{4}, 0.2$

C. $0.2, \frac{1}{4}, \frac{1}{2}$

D. $0.2, \frac{1}{2}, \frac{1}{4}$

6.NS.6c

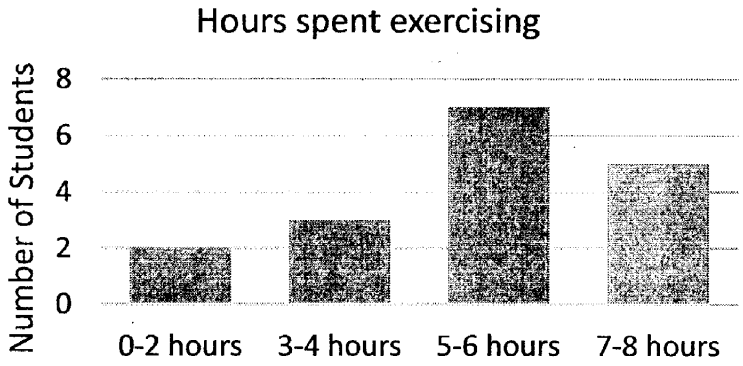
15. The gym teacher asked students how much time they spent exercising each week and displayed the information below. Which interval represents a peak?

A. 0-2 hours

B. 3-4 hours

C. 5-6 hours

D. 7-8 hours



6.SP.2

Math Test Prep - 6th Grade

18. Write an equation for this word sentence: one third of a number equals 9.

A. $\frac{1}{3} = 9$

B. $\frac{1}{3}n = 9$

C. $13n = 9$

D. $\frac{1}{3} + n = 9$

6.EE.7

19. Kyle divided a drink with a volume of 2 ½ cups into ¼ cup portions. How many portions did he have?

A. 12

B. 10

C. 8

D. 6

6.NS.2

20. The ratio of girls to boys is 2:3. If there are 10 girls, how many boys are there?

A. 2

B. 3

C. 10

D. 15

6.RP.1

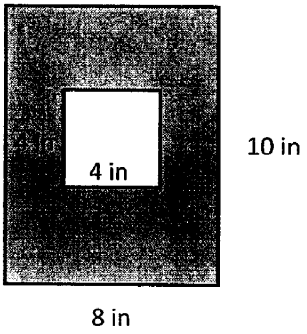
21. Find the area of the shaded region.

A. 16 in^2

B. 80 in^2

C. 64 in^2

D. 96 in^2



6.G.1

22. $3\frac{1}{2} \div 1\frac{1}{2} =$

A. 3

B. 2

C. 1 ½

D. $2\frac{1}{3}$

6.NS.1

23. The temperatures in Chicago over 5 days were -5, 0, 4, -1, -3. Which list shows these temperatures arranged from least to greatest?

A. -5, -3, -1, 0, 4

B. 4, 0, -1, -3, -5

C. -1, -3, -5, 0, 4

D. 4, 0, -5, -3, -1

6.NS.7a

Math Test Prep - 6th Grade

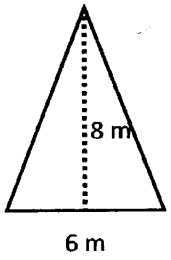
24. What is the area of this triangle?

A. 48 m^2

B. 42 m^2

C. 24 m^2

D. 12 m^2



6.G.1

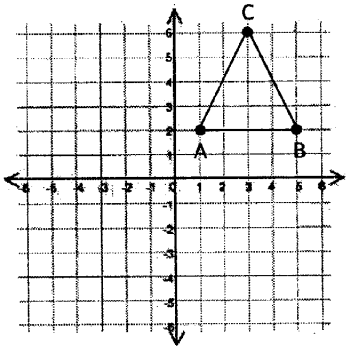
25. For $\triangle ABC$, what is the length of $\overline{AB}$?

A. 1

B. 2

C. 4

D. 5



6.G.3

26. Maria reads 40 pages of her novel in 4 hours. At that rate, how many pages would she read in 5 hours?

A. 40

B. 50

C. 90

D. 100

6.RP.3a

27. The table shows shots on goal for 2 soccer players over 5 games. Which statement is true?

Shots on goal	
Heidi	2, 1, 3, 0, 3
Karen	4, 0, 2, 1, 1

A. The mean for Heidi and Karen is the same.

B. The mean for Heidi is greater than the mean for Karen.

C. The mean for Karen is greater than the mean for Heidi.

D. The range is the same.

6.SP.3

28. $25.1 \times 3.7 =$

A. 92.87

B. 9.287

C. 82.87

D. 8.287

6.NS.3

Math Test Prep - 6th Grade

29. Evaluate the following expression

$$3(4 + 2k)$$

A. $12 + 5k$

B. $12 + 2k$

C. $12 + 6k$

D. $9 + 6k$

6.EE.3

30. Which of the following has a value less than 0?

A. 4

B. $|4|$

C. $|-4|$

D. -4

6.NS.7c

31. What is 120% as a decimal and a fraction in simplest form?

A. 1.2 and $\frac{1}{5}$

B. 1.2 and $1\frac{1}{5}$

C. 12.0 and $\frac{1}{5}$

D. 12.0 and $1\frac{1}{5}$

6.RP.3c

32. The location of the library is represented by the point (-20,5). In which quadrant is this point?

A. Quadrant I

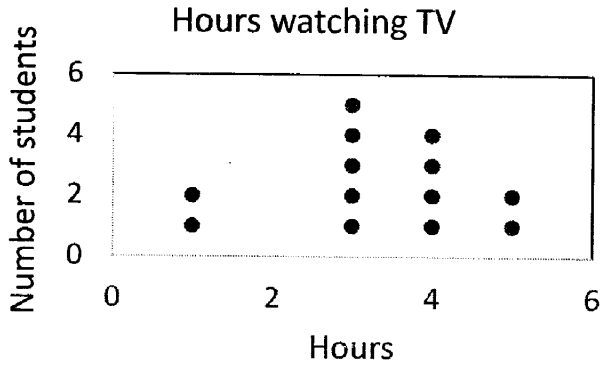
B. Quadrant II

C. Quadrant III

D. Quadrant IV

6.NS.6b

33. The dot plot shows the number of hours students watched TV last week. What is the most common number of hours?



A. 5

B. 4

C. 3

D. 2

6.SP.4

Math Test Prep - 6th Grade

34. The expression $7(b + 3)$ is equivalent to which expression?

A. $7b + 3$

B. $7 + b + 3$

C. $7b + 10$

D. $7b + 21$

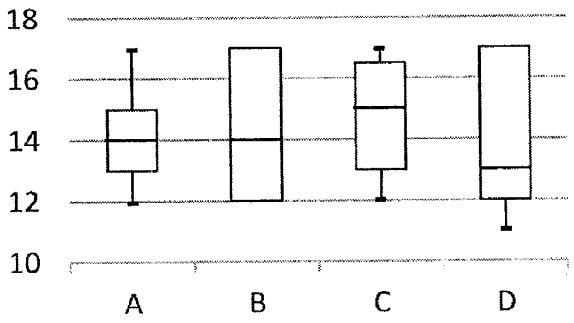
6.EE.4

35. Mrs. Cantonwine teaches 2 math classes. There are 28 students in 6A and 21 students in 6B. She divided both classes into groups of equal size. How many students are in a group?

A. 7
B. 6
C. 5
D. 4

6.NS.4

36. Which of the following is a box & whisker plot for 12, 14, 15, 16, 17?



6.SP.4

37. $\frac{1}{8} \times \frac{2}{3} =$

A. $\frac{1}{8}$

B. $\frac{2}{3}$

C. $\frac{1}{12}$

D. $\frac{1}{3}$

6.NS.4

38. Evaluate the expression

$$5^2 - (3^2 + 4)$$

A. 0

B. 38

C. 20

D. 12

6.EE.1

39. The linear equation $y = 2x$ represents the cost y of x pounds of pears. Which ordered pair lies on the graph of the equation?

A. (2, 4)

B. (1, 0)

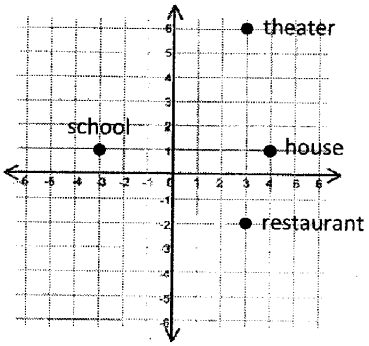
C. (10, 5)

D. (4, 12)

6.EE.9

Math Test Prep - 6th Grade

40. Each unit is 1 mile. What is the distance from the theater to the restaurant?



A. 10 miles
B. 8 miles
C. 6 miles
D. 4 miles

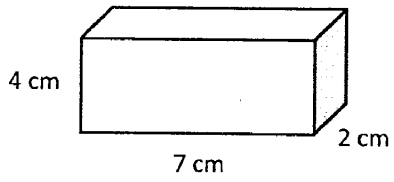
6.NS.8

41. The dog's weight changed -7 oz. while he was sick. Which of the following shows a greater change in weight?

A. Loss of 8 oz.
B. Loss of 6 oz.
C. Gain of 6 oz.
D. Gain of 3 oz.

6.NS.7d

42. What is the volume?



A. 13 cm^3
B. 28 cm^3
C. 56 cm^3
D. 112 cm^3

6.G.2

43. What is the mean, median, and mode for this set of data: 24, 20, 26, 24, 21?

A. 22, 26, 24
B. 23, 26, 24
C. 22, 24, 24
D. 23, 24, 24

6.SP.5c

44. Order these integers from greatest to least: -3, 3, 0, 1, -1

A. -3, -1, 0, 1, 3
B. 3, 1, 0, -1, -3
C. -1, 3, 0, 1, 3
D. 3, 1, 0, -3, -1

6.NS.7a

45. If 2 bags of apples weigh 8 pounds, how many pounds do 5 bags weigh?

A. 20 pounds
B. 10 pounds
C. 12 pounds
D. 15 pounds

6.RP.3b

Math Test Prep - 6th Grade

46. The high temperatures for the week were 50, 52, 71, 54, and 51. What is the mean of the temperatures without the outlier?

A. 51.75

B. 41.4

C. 163.8

D. 52

6.SP.5d

47. Jerome records how much time he spends doing homework every day for 5 days. Which is <u>not</u> a statistical question for this situation?

A. What is the average amount of time each night?
B. What is the total amount of time?
C. Which subject is his favorite?
D. On which night did he spend the most time doing homework?

6.SP.1

48. Susie wants to have pizza for her party. She needs 1 pizza for every 4 people. Which expression helps her decide how much pizza to buy if p represents the number of people?

A. 4p

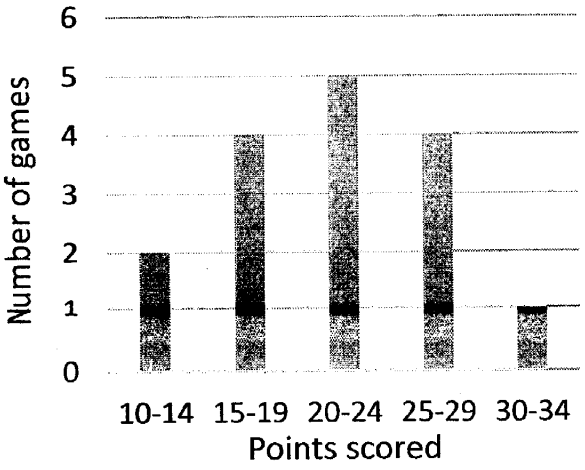
B. ¼ p

C. 2 p

D. ½ p

6.EE.6

49. A middle school basketball coach recorded the number of points scored in each game. In how many games did they team score 25-29 points?



A. 2

B. 3

C. 4

D. 5

6.SP.5a

50. A rectangular prism measures 8 inches by 4 inches by 6 inches. What is the surface area?

A. 144 in^2

B. 104 in^2

C. 208 in^2

D. 224 in^2

6.G.4

Math Test Prep - 6th Grade

51. Is $k = 4$ a solution to the equation $\frac{1}{2}k = 8$?

A. Yes

B. No, $k = 16$

C. No, $k = 2$

D. No, $k = 8$

6.EE.5

52. How many terms are in the following expression?

$5a + 3$

A. 1

B. 2

C. 3

D. 0

6.EE.2b

53. The reporter interviewed 10 first-time skiers from Florida. Which of the following is true?

A. This is a sample of all skiers.

B. These skiers are biased.

C. These skiers are not biased.

D. This is a random sample.

6.SP.5b

54. Order these numbers from greatest to least.

$-\frac{1}{2}, -\frac{1}{4}, 0, 0.3, 0.2$

A. $0.3, 0.2, 0, -\frac{1}{4}, -\frac{1}{2}$

B. $-\frac{1}{2}, -\frac{1}{4}, 0, 0.2, 0.3$

C. $0.2, 0.3, 0, -\frac{1}{2}, -\frac{1}{4}$

D. $0.3, 0.2, 0, -\frac{1}{2}, -\frac{1}{4}$

6.NS.7b

55. $x + 5 = 15$

A. $x = 10$

B. $x = 20$

C. $x = 3$

D. $x = 45$

6.EE.7

56. $267.22 \div 3.1 =$

A. 0.862

B. 8.62

C. 86.2

D. 862

6.NS.3