

7th Grade Final Review Std: 7.N.1

1 Which of the following results in an irrational number?

A. $\sqrt{25}$ B. $\sqrt{10}$ C. $\frac{\pi}{\pi}$ D. $\sqrt{16}$

Level 2

Std: 7.N.1

2. Which set of numbers includes only rational numbers?

A. $\frac{0}{3}$ -4.5 $-\frac{4}{3}$ $\sqrt{12}$

B. $\sqrt{9}$ -2.1 -2.5 $\frac{2}{5}$

C. $\sqrt{2}$ -4.07 $\sqrt{5}$ $\sqrt{11}$

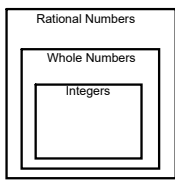
D. $\sqrt{7}$ $\sqrt{22}$ $\sqrt{4}$ $-\frac{3}{4}$

Level 3

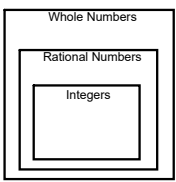
Std: 7.N.1

3. Which graphic organizer correctly groups the following number sets?

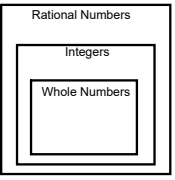
A.



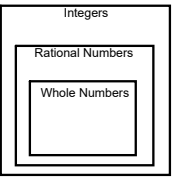
B.



C.



D.



Level 2

Std: 7.N.1

4. Which set of numbers is in order from least to greatest?

A. -1.2 , $-\frac{1}{5}$, $-\sqrt{4}$, $-\frac{4}{5}$

B. -1.2 , $-\frac{4}{5}$, $-\sqrt{4}$, $-\frac{1}{5}$

C. $-\sqrt{4}$, $-\frac{4}{5}$, -1.2 , $-\frac{1}{5}$

D. $-\sqrt{4}$, -1.2 , $-\frac{4}{5}$, $-\frac{1}{5}$

Level 3

Std: 7.N.2

5. Which of the following expression has a value of -5?

A $-(-20) \div (-4)$

B $-(-20) \times (-4)$

C $-(4) \div (-20)$

D $(20) \times (4)$

Level 2

Std: 7.N.2

6. Josefina walked up a hill with an altitude (height of the hill) of 1200ft. She then descended 2000 ft. What integer represents her final altitude?

A -400

B 400

C -800

D 800

Level 3

7. Simplify:

$$125 \div (2.5^2 \cdot 5) - 10 \div (-2)$$

Std: 7.N.2

- A 1.5
- B 6
- C 9
- D 11.5

Level 3-4

8. Simplify:

$$-6.225 + (-12.78)$$

Std: 7.N.2

- A -19.005
- B -18.605
- C 6.555
- D 18.605

Level 3

9. Simplify:

$$-\frac{5}{7} + \frac{3}{10}$$

Std: 7.N.2

- A $-1\frac{1}{70}$
- B $1\frac{1}{70}$
- C $\frac{2}{45}$
- D $-\frac{2}{45}$

Level 3

10. Which expression is equivalent to:

$$-\frac{1}{110}$$

Std: 7.N.2

- A $\frac{10}{11} - \frac{9}{10}$
- B $-\frac{10}{11} \times \frac{9}{10}$
- C $\frac{10}{11} \div \frac{9}{10}$
- D $-\frac{10}{11} + \frac{9}{10}$

Level 3

11. Which equation forms a direct variation?

Std: 7.A.1

- A $y = 3x - 1$
- B $y = \frac{1}{2x}$
- C $y = -\frac{2}{5}x$
- D $2 + y = 7x$

Level 3

12. Which equation forms a inverse variation?

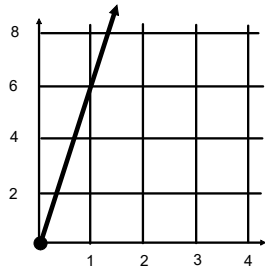
Std: 7.A.1

- A $y = \frac{3}{5x}$
- B $y = -\frac{2}{5x} + 9$
- C $-7 + y = \frac{3}{x}x$
- D $y + 3 = \frac{2}{3x}$

Level 3

13. Given the following proportional relationship, find the constant of proportionality: Std: 7.A.1

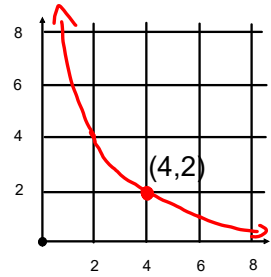
- A $k = \frac{1}{3}$
- B $k = \frac{1}{6}$
- C $k = \frac{3}{1}$
- D $k = \frac{6}{1}$



Level 3

14. Given the following inverse relationship, and the point find k: Std: 7.A.1

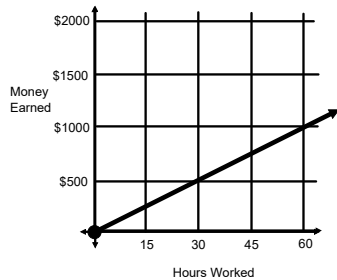
- A $k = \frac{1}{4}$
- B $k = \frac{4}{1}$
- C $k = \frac{8}{1}$
- D $k = \frac{1}{8}$



Level 3

15. The graph shows the relationship between hours worked and money earned. Which statement is true? Std: 7.A.2

- A \$16.67 dollars is earned per hour
- B \$33.33 dollars is earned per hour
- C \$250 dollars is earned per hour
- D \$500 dollars is earned per hour



Level 3

16. A shirt costs \$1 to make, and it will have a mark up of 2000%. How much will the selling price of that shirt be? Std: 7.A.2

- A \$1.20
- B \$20
- C \$21
- D \$2001

Level 3

18. Solve for the following equation: Std: 7.A.3

$$4(-5x + 3) = -18$$

- A $x = -2.5$
- B $x = 2.5$
- C $x = -1.5$
- D $x = 1.5$

Level 3

19. To start a business, Klechovi borrowed \$10,000 from the bank. He expects to pay back \$4,600 each month. If y represents total loan cost and x represents the number of months. Which statement shows this relationship. Std: 7.A.3

- A $y = 4600x + 10000$
- B $y = 10000x + 4600$
- C $y = 4600x - 10000$
- D $x = 4600y - 10000$

Level 3

20. Which value of Y makes the following statement true? Std: 7.A.3

$$\frac{Y}{5} - 1.25 = -5.75$$

A -22.5
 B -4.5
 C 4.5
 D 22.5

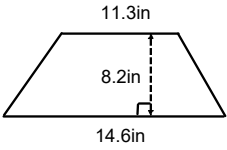
Level 3

17. Gertrudez is going to purchase a new cell phone that retails for \$850. If the store is giving a 18% discount. What will she have to pay for the cell phone if sales tax is 8.5%? Std: 7.A.2

A \$153.00
 B \$697.00
 C \$756.25
 D \$825.55

Level 3-4

24. Given the figure find the area. Std: 7.GM.2



A $106.19in^2$
 B $212.38in^2$
 C $558.9in^2$
 D $1352.836in^2$

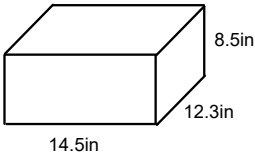
Level 3

21. A container is a rectangular prism with the measurements of 8 cm in length, 8.5 cm in width and 5.5 cm in height. Find the surface area of the container. Std: 7.GM.1

A $317.5cm^2$
 B $327.5cm^2$
 C $337.5cm^2$
 D $347.5cm^2$

Level 3

22. Given the figure find the volume. Std: 7.GM.1



A $715.8in^3$
 B $1168.7in^3$
 C $1252.33in^3$
 D $1515.975in^3$

Level 3

23. If a rectangular prism has a volume of 450 cubic inches, a length of 4.5 inches and a height of 2 inches. What is the width of rectangular prism? Std: 7.GM.1

A 15in
 B 30in
 C 40in
 D 50in

Level 3

25. Given the figure find the area. Std: 7.GM.2

A 692.3in²
 B 1010.2in²
 C 1047.875in²
 D 1230.3in²

Level 3

26. Given the figure find the perimeter. Std: 7.GM.2

A 330in
 B 358in
 C 410in
 D 430in

Level 3

27. Find the area leave your answer in terms of pi: Std: 7.GM.3

A 0.0025πcm²
 B 0.5625πcm²
 C 1.5πcm²
 D 3.14πcm²

Level 3

28. Find the area use 3.14 for pi: Std: 7.GM.3

A 2cm²
 B 5.0625cm²
 C 13.6cm²
 D 15.89625cm²

Level 3

29. Which equation can be used to find the circumference of the figure below: Std: 7.GM.3

A $C = 10^2 \cdot \pi$
 B $C = 5^2 \cdot \pi$
 C $C = 10 \cdot \pi$
 D $C = 20 \cdot \pi$

Level 3

30. Which set of coordinates describes the translation $(x + 1, y + 2)$ of the given pre-image: Std: 7.GM.4

X(-3, -5) Y(-3, -1) Z(-5, -3)

a) X'(-2, -3) Y'(0, 1) Z'(-1, -3)
 b) X'(-3, 0) Y'(-1, 0) Z'(-2, -1)
 c) X'(0, -2) Y'(-1, -3) Z'(2, 0)
 d) X'(-2, -3) Y'(-2, 1) Z'(-4, -1)

Level 3

31. Which set of coordinates describes the reflection across the x-axis of the given pre-image: Std: 7.GM.4

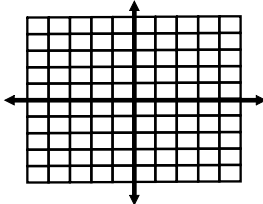
X(2, -5) Y(5, -1) Z(3, -2)

a) X'(5, -5) Y'(5, -1) Z'(1, -5)

b) X'(2, 5) Y'(5, 1) Z'(3, 2)

c) X'(2, 5) Y'(-5, 1) Z'(-1, 5)

d) X'(4, 1) Y'(2, 5) Z'(5, 5)



Level 3

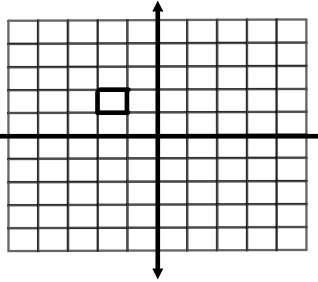
32. Which set of coordinates describes the dilation by a scale factor of 2 of the given pre-image: Std: 7.GM.4

a) Set A: (2, 4) (-4, 4) (2, -2) (4, -2)

b) Set B: (-2, -2) (-2, 3) (0, 2) (0, -3)

c) Set C: (-2, 2) (-2, -1) (2, 2) (2, -1)

d) Set D: (-4, 4) (-2, 4) (-2, 2) (-4, 2)



Level 3

33. The following are basketball scores per game of a team: 7.D Standard Quiz Std: 7.D.1

28, 44, 33, 27, 32, 22, 32, 15. What is the median score?

A 29.5

B 30

C 30.5

D 34

Level 3

34. The table shows how much rain per month in a town for the first semester. Find the mean. Std: 7.D.1

Month	Amount of rain (in)
January	11
February	12
March	13
April	15
May	17
June	13

A 10.5

B 11.5

C 12.5

D 13.5

Level 3

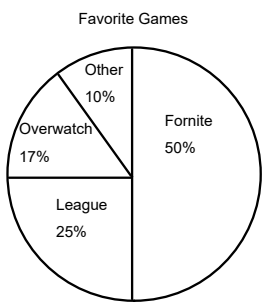
35. The circle graph below shows the result of a survey for game. 2500 people were interviewed. How many people choose "Overwatch" as their favorite game? Std: 7.D.1

A 185

B 300

C 375

D 425



Level 3

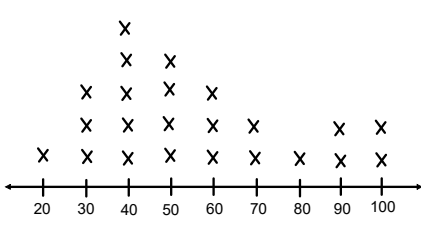
36. Use the line plot to find the mode. Std: 7.D.1

A 20

B 40

C 50

D 70



Level 3

Std: 7.D.1

37. Julio had a mean of 85% for the four tests he took. What does he have to score in his next test to have a mean score of 87% for all five tests?

A 85
B 90
C 95
D 100

Level 3

Std: 7.D.1

38. The following data set has a mean of 8 and a median of 8.
7, 8, 9, 8, 10, 6, 8

If the number 9 is added to the set, which statement is true?

A The mean will increase
B The mean will decrease
C The median will increase
D The median will decrease

Level 3

Std: 7.D.2

39. A 8 sided die is rolled 100 times. How many times should you expect to roll a 1 or 8?

A 10
B 15
C 20
D 25

Level 3

Std: 7.D.2

40. Which method is best for conducting a survey for the topic favorite super hero? (hint: *two are good ones but one is less biased*)

A. Ask 50 random people at a comic expo.
B. Ask 50 random people at the Naruto special event at the comic expo.
C. Ask 50 random people at the Marvel presentation.
D. Ask 50 random people during lunch time at the comic expo.

Level 3

Std: 7.D.2

41. The line plot shows the results of 30 rolls of a 6 sided die. What is the probability that a 1, 3, 6 was rolled?

A 10%
B 33.3%
C 66.7%
D 73.3%

Level 3

Std: 7.D.2

42. The spinner below has 5 congruent sections. Find the probability of NOT a prime number?

A 12.5%
B 20%
C 40%
D 60%

Level 3

Standard Quiz	Question Number Followed by the Answer											
7.N.1Quiz1	1.B	2.D	3.B	4.B	5.D	6.D						
7.N.2Quiz1	1.C	2.D	3.B	4.D	5.B	6.D	7.A	8.A				
7.N.2Quiz2	1.C	2.A	3.D	4.B	5.D							
7.NQuiz	1.A	2.B	3.D	4.A	5.C	6.C	7.A*	8.B*	9.A	10.C	11.C	12.C
7.A.1Quiz1	1.C	2.A	3.C	4.A	5.B	6.D						
7.A.2Quiz1	1.A	2.D	3.C	4.A	5.C	6.A	7.A	8.C				
7.A.3Quiz1	1.A	2.D	3.D	4.D	5.A							
7.A.4Quiz1	1.A	2.C	3.B	4.B	5.B							
7.A.Std.Quiz	1.C	2.A	3.C	4.B	5.C	6.A	7.B	8.D	9.B	10.B	11.D	12.B
7.GM.1Quiz1	1.C	2.D	3.A	4.B	5.A							
7.GM.2Quiz1	1.A	2.C	3.D	4.B								
7.GM.3Quiz1	1.D	2.B	3.A	4.C	5.A	6.B						
7.GM.4Quiz1	1.D	2.A	3.A	4.B	5.C	6.D	7.C	8.A	9.C	10.A		
7.GM.Std.Quiz	1.D	2.B	3.B	4.D	5.C	6.D	7.A	8.B	9.C	10.A	11.C	12.A
7.D.1Quiz1	1.B	2.B	3.C	4.A	5.D	6.D						
7.D.2Quiz1	1.B	2.C	3.A	4.C	5.D							
7.D.Std.Quiz	1.A	2.A	3.C	4.D	5.B	6.C	7.C	8.D	9.D	10.A	11.B	12.C
Standard Test	1.B	2.B	3.C	4.C	5.A	6.C	7.C	8.A	9.B	10.D	11.C	12.A
	13.D	14.C	15.A	16.C	17.C	18.D	19.C	20.A	21.A	22.D	23.D	24.A
	25.C	26.B	27.B	28.D	29.C	30.D	31.B	32.D	33.B	34.D	35.D	36.B
	37.C	38.A	39.D	40.D	41.D	42.C						