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Number System

1. Use properties of operations to find the quotient.

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13.803 ÷ 2.58
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 $\frac{3}{13} \times 143$

 $\frac{3}{7} \div 2.5$

A. 11.223
B. 5.35
C. 5.885
D. 1.3803

2. Use properties of rational numbers to multiply the following.

3. Use properties of operations to find the quotient.

• A. $\frac{6}{35}$		
O B. 5 ⁵ ₆		
• C. $1\frac{1}{14}$		
○ D. <u>6</u> 77		

4. Griffin ordered a pair of sneakers online. He had a \$15 credit that he applied toward the purchase, and then he used a credit card to pay for the rest of the cost. If the shoes cost \$56, how much did Griffin charge to his credit card when he bought the sneakers?

O	Α.	\$71
0	в.	\$41
0	C.	\$26
0	D.	\$86

5. Use properties of rational numbers to simplify the expression.

(26 - 9.13) - (185.4 + 6)

A. 208.53
B. 196.53
C. -174.53

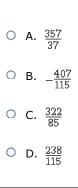
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O D. -156.27

6. Garnet has a container with $11\frac{1}{2}$ cups of flour in it. She can make one dozen muffins with $2\frac{1}{2}$ cups of flour. How many dozens of muffins can Garnet make with the flour she has?

• A. $4\frac{1}{2}$ • B. $28\frac{3}{4}$ • C. $4\frac{3}{5}$ • D. 9

7. Use properties of rational numbers to multiply the following.

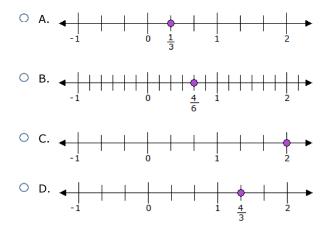


8.

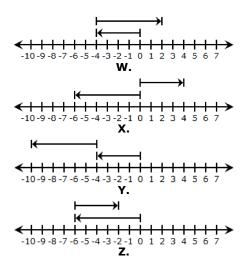


 $-\frac{14}{5} \times \left(-\frac{51}{69}\right)$

Which of the following number lines shows the correct sum of the number above and $\frac{5}{3?}$



9. Which model represents -4 - 6?



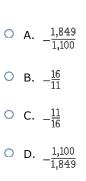
O A. Z

- О В. W
- O C. Y
- O D. X

10. Ben weighs 138.3 pounds, and Jennifer weighs 117.5 pounds. How many more pounds does Ben weigh than Jennifer?

A. 19.8
B. 20.8
C. 20.4
D. 21.4

11. Use properties of operations to find the quotient.



12. Lindsey went skydiving. When she jumped out of the plane, its elevation was 13,000 feet. She was in free-fall for 10,000 feet, and then she deployed her parachute. At what elevation did Lindsey deploy her parachute?

 $1.075 \div \left(-\frac{86}{55}\right)$

A. -3,000 feet
B. 16,000 feet
C. -16,000 feet
D. 3,000 feet

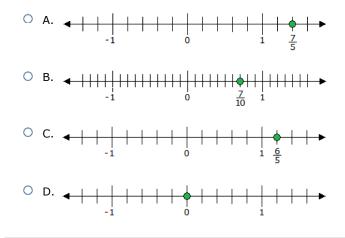
13. Tyrone's bank account had a balance of -\$91.47 last week. His paycheck of \$344.42 was deposited this week. If there have been no other transactions, which of the following is true?

- \bigcirc A. Tyrone's current account balance is \$252.95.
- \bigcirc B. Tyrone's current account balance is -\$435.89.
- \bigcirc C. Tyrone's current account balance is -\$252.95.
- O D. Tyrone's current account balance is \$435.89.

14.



Which of the following number lines shows the correct sum of the number above and $\frac{1}{5}$?



15. Cady found that she uses $\frac{1}{6}$ of a roll of paper towels each week. How many rolls of paper towels will she use in 8 weeks?

• A. $\frac{48}{1\frac{1}{3}}$ • C. $2\frac{1}{3}$ • D. $\frac{14}{14}$

16. Use properties of rational numbers to multiply the following.

 $-10 \times (-40)$

A. 200
B. 400
C. -200
D. -400

17. Use properties of operations to find the quotient.

-11 ÷ (-1.76)

A. 0.16B. 6.25

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C. -12.76D. 19.36

18. Use properties of rational numbers to simplify the expression.

• A. $\frac{1}{2}$ • B. $\frac{4}{5}$ • C. $\frac{2}{3}$ • D. $1\frac{1}{15}$

19. Chester has a coupon for $\frac{3}{10}$ off the price of a shirt. If the shirt originally costs \$33.00, what discount would Chester receive from using his coupon?

 $\frac{2}{5} + \frac{7}{15} + \frac{1}{5}$

A. \$0.91
B. \$9.90
C. \$23.10
D. \$19.80

20. Use properties of rational numbers to multiply the following.

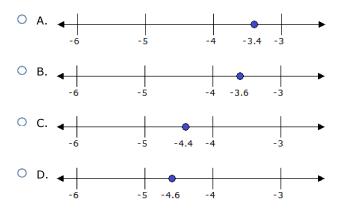
-4.4 × (-17.4)

- A. -7.656B. -76.56
- O C. 76.56
- O D. 7.656

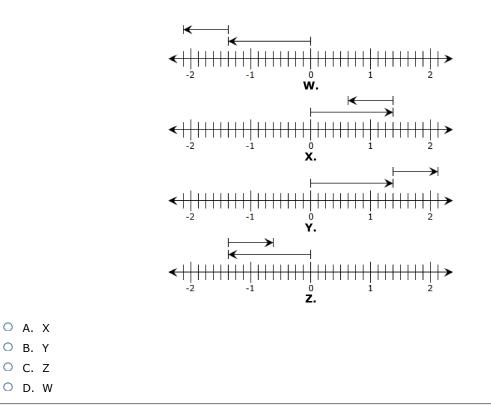
21.



Which of the following number lines shows the correct sum of the number above and 1.9?



22. Which model represents $\frac{11}{8} + \frac{3}{4}$?



23. Stuart's bank account had a balance of - \$41.23 last month. This month he won a cash prize of \$72.93 for winning a competition. How much money does Stuart have at the end of this month, if there are no other transactions?

- A. Stuart's account balance is \$31.7.
- B. Stuart's account balance is \$31.7.
- C. Stuart's account balance is \$114.16.
- D. Stuart's account balance is \$114.16.

24. The temperature of a city at sunset was -3°F. Overnight, the temperature decreased by 11°F. What was the lowest temperature overnight in that city?

- A. -8°F
- B. -14°F
- C. 14°F
- D. 8°F

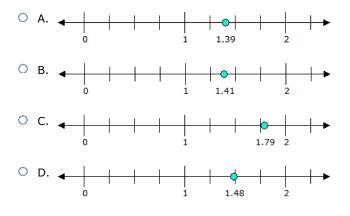
25. George drinks 56.37 fluid ounces of water per day. How much water does he drink in 6 days?

- A. 281.85 fluid ounces
- B. 62.37 fluid ounces
- C. 394.59 fluid ounces
- D. 338.22 fluid ounces





Which of the following number lines shows the correct sum of the number above and -0.25?



27. The average temperature of Kopikoville was reported to be - 17° last year. This year, the average temperature of Kopikoville rose by 5°. Which of the following is true about this year's average temperature of Kopikoville?

- A. This year's average temperature of Kopikoville is 12°.
- B. This year's average temperature of Kopikoville is 12°.
- C. This year's average temperature of Kopikoville is 22°.
- O D. This year's average temperature of Kopikoville is 22°.

28. Which expression is represented by the model below?

A. -8 + 4
B. -8 + (-4)
C. -8 + (-12)
D. -8 + 12

29. A ferry carries passengers a distance of $3\frac{5}{8}$ miles across a river. The ferry made 6 trips across the river in one day. Which of the following is true?

- $^{\circ}~$ A. The ferry traveled $^{12}\frac{3}{7}$ total miles in one day.
- $^{\bigcirc}\,$ B. The ferry traveled $^{38\frac{2}{3}}$ total miles in one day.
- ^O C. The ferry traveled $21\frac{3}{4}$ total miles in one day.
- $^{\rm O}\,$ D. The ferry traveled $^{16}\frac{4}{7}$ total miles in one day.

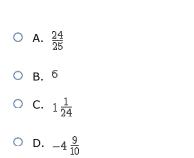
30. Use properties of operations to find the quotient.

-11.7 ÷ 9

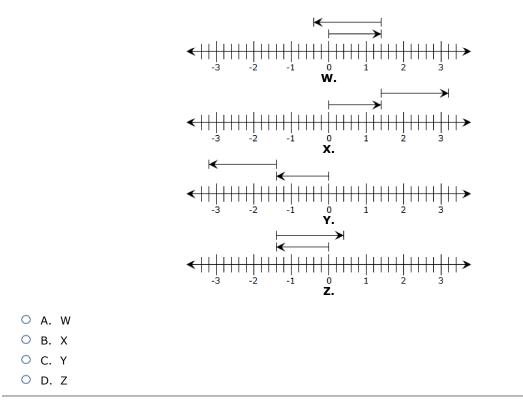
A. -1.3
B. 2.7
C. 1.3
D. -2.7

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31. Use properties of operations to find the quotient.



32. Which model represents 1.4 + 1.8?



33. Fredo has a coupon for \$1.00 off the price of a loaf of bread at the grocery store. After he arrived at the store, he found out the bread had already been marked down \$2.00. What is the total discount on the price of the bread?

 $-2\frac{2}{5} \div \left(-2\frac{1}{2}\right)$

A. \$3.00
B. \$1.00
C. -\$3.00
D. -\$1.00

34. Barney has $20\frac{2}{3}$ feet of lumber that he is going to cut into 4 equal pieces for a border on his garden. Which of the following is true?

 $^{\bigcirc}~$ A. Each piece of lumber is $^{16}\frac{2}{3}$ feet long.

- O B. Each piece of lumber is $5\frac{1}{6}$ feet long.
- \bigcirc C. Each piece of lumber is 5 feet long.
- $^{\circ}$ D. Each piece of lumber is $^{15}\frac{1}{2}$ feet long.

35. A scuba diver descended $11\frac{5}{12}$ feet below sea level. Then, he descended another $3\frac{2}{5}$ feet. Which of the following is true about the scuba diver after both descents?

- $^{\circ}$ A. The location of the scuba diver in relation to sea level was $^{-14}\frac{49}{60}$ feet.
- $^{\bigcirc}~$ B. The location of the scuba diver in relation to sea level was $^{14}\frac{49}{60}$ feet.
- $^{\rm O}\,$ C. The location of the scuba diver in relation to sea level was $^{-8}\frac{1}{60}$ feet.
- $^{\rm O}\,$ D. The location of the scuba diver in relation to sea level was $^{8}\frac{1}{60}$ feet.

Answers

1. B	
2.5	
2. D	
3. A	
J. A	
4. B	
ГС	
4. B 5. C	
6. C	
7 0	
7. D	
8. D	
0.0	
9. C	
10. B	
10. D	
11. C	
12. D	
12. D	
13. A	
14. A	
14. A	
15. B	
16. B	
10. D	
17. B	
18. D	
10. D	
19. B	
20. C	
20.0	
21. A	
22. B	
22.0	
23. A	
24. B	
25. D	
26. A	
20:7(
27. A	
28. D	
201 0	
29. C	
30. A	
31. A	
32. B	
33. C	
34. B	
35. A	