

## Benchmark Test Modules 1–5

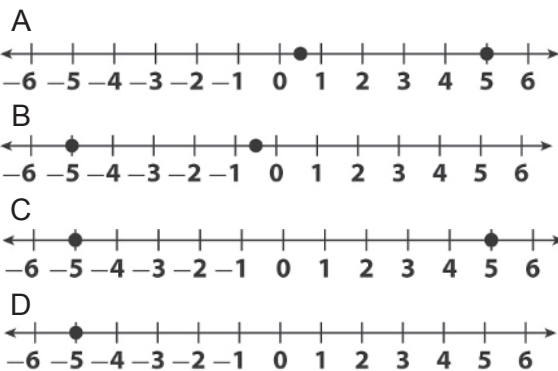
1. Which of the following shows the integers in order from **least** to **greatest**?

- A 0, -3, 4, 8, -17, -20
- B -3, -17, -20, 0, 4, 8
- C -20, -17, -3, 0, 4, 8
- D 8, 4, 0, -3, -17, -20

2. What is the opposite of -6?

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

3. Which number line shows -5 and its opposite?



4. Which is **not** a true statement?

- A  $-8 < 7$
- B  $-8 > -7$
- C  $7 > -8$
- D  $7 < 8$

5. Which number has the same absolute value as 81?

- A 1
- B 0
- C -1
- D -81

6. To which set or sets does -20 belong?

- A whole number, integer and rational number
- B integer and rational number
- C negative integer
- D whole number and integer

7. What is the absolute value of -8.3?

- A 8.3
- B 3.8
- C 0
- D -8.3

8. Which shows the rational numbers in order from **least** to **greatest**?

- A  $1.9, 5\frac{5}{8}, -6, -8.2, 9, -16\frac{1}{3}$
- B  $-16\frac{1}{3}, -8.2, -6, 1.9, 5\frac{5}{8}, 9$
- C  $-6, -8.2, -16\frac{1}{3}, 1.9, 5\frac{5}{8}$
- D  $9, 5\frac{5}{8}, 1.9, -16\frac{1}{3}, -8.2, -6$

9. Which is the product of  $\frac{5}{8} \times \frac{2}{3}$ ?

- A  $\frac{5}{12}$
- B  $\frac{7}{11}$
- C  $\frac{15}{16}$
- D  $8\frac{2}{3}$

10. Which is the quotient of  $\frac{11}{12} \div \frac{5}{7}$ ?

- A  $\frac{55}{84}$
- B  $\frac{16}{19}$
- C  $\frac{77}{84}$
- D  $1\frac{17}{60}$

11. April has 3 pounds of trail mix. She puts equal amounts in each of 8 bags. How much trail mix is in each bag?

- A  $\frac{8}{3}$  lb
- B  $\frac{3}{8}$  lb
- C  $\frac{1}{5}$  lb
- D  $\frac{1}{24}$  lb

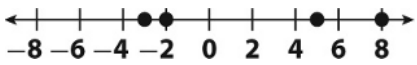
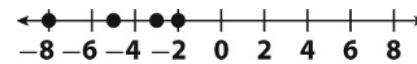
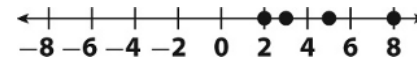
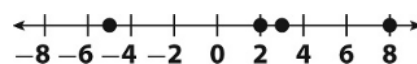
12. Which is the reciprocal of  $2\frac{5}{8}$ ?

- A  $-2\frac{8}{5}$
- B  $-2\frac{5}{8}$
- C  $\frac{8}{21}$
- D  $2\frac{8}{5}$

13. Eli earns \$12.50 per hour at his job. Last week he worked  $34\frac{1}{2}$  hours. How much did he earn last week?

- A \$425.00
- B \$431
- C \$431.25
- D \$437.50

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14. Trayvon weighs 142 pounds. Multiply his weight on Earth by 0.92 to find his weight on the planet Saturn. What is the difference between Trayvon's weight on Earth and his weight on Saturn?
- A 11.36 lb                      C 141.08 lb  
B 12.36 lb                      D 142.92 lb
15. Of the dogs at the dog show,  $\frac{1}{12}$  were classified as belonging to the Hound Group. Of the dogs in the Hound Group,  $\frac{3}{10}$  were English Foxhounds. What fraction of the dogs at the show were English Foxhounds?
- A  $\frac{4}{22}$                               C  $\frac{10}{12}$   
B  $\frac{3}{12}$                               D  $\frac{1}{40}$
16. Which number line shows  $|-3|$ ,  $|-8|$ ,  $|-2|$ , and  $|5|$ ?
- A 
- B 
- C 
- D 
17. Kendra is thinking of an integer greater than  $-3\frac{2}{5}$  and less than  $-2.7$ . Which of the following numbers could Kendra be thinking of?
- A  $-2$                               C  $-3.5$   
B  $-3$                               D  $-4$
18. Mrs. Manning carries a very large purse. The purse and its contents weigh 5.18 pounds. If she takes her makeup out of the purse, it weighs only 3.76 pounds. How much makeup does Mrs. Manning carry in her purse?
- A 8.94 lb                      C 1.42 lb  
B 1.52 lb                      D 1.27 lb
19. A yoga mat is 74.8 inches long and 22.6 inches wide. What is the area of the mat?
- A 16.90 in<sup>2</sup>                      C 1,690.48 in<sup>2</sup>  
B 169.04 in<sup>2</sup>                      D 16,904.8 in<sup>2</sup>
20. A red candle is  $11\frac{2}{5}$  inches tall. The label claims that the candle will melt  $1\frac{1}{8}$  inch every hour it burns. If the label is correct, for how many hours will the candle burn?
- A  $10\frac{2}{45}$  h                      C 11.13 h  
B  $10\frac{2}{15}$  h                      D  $11\frac{17}{40}$  h
21. The diameter of a U.S. quarter is 24.26 millimeters. How long is a line of 37 quarters laid edge to edge?
- A 8.97 mm  
B 89.76 mm  
C 897.62 mm  
D 8,976.2 mm
22. Mr. Curtis paid \$48.51 for 12.6 gallons of gas. What is the price of one gallon of gas?
- A \$3.86                      C \$3.84  
B \$3.85                      D \$3.83

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23. A case of grapefruit weighs  $35\frac{3}{4}$  pounds. Of this weight,  $\frac{1}{8}$  is not ripe. What is the weight of the grapefruit that are ripe?  
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24. Ed bought a bottle of fancy mustard that holds 8.5 ounces. Ed puts about  $\frac{1}{25}$  of the mustard on each hot dog he eats. How much of the mustard is left in the bottle after he eats 7 hot dogs?  
\_\_\_\_\_
25. The area of a rug is  $4\frac{15}{32}$  square meters. The rug is  $2\frac{3}{4}$  meters in length. How wide is the rug?  
\_\_\_\_\_
26. What is the greatest common factor of 60 and 72?  
\_\_\_\_\_
27. What is the least common multiple of 14 and 21?  
\_\_\_\_\_
28. An art museum had 275,760 visitors last year. The museum was open every day of the year except for 5 holidays. How many visitors did the museum have each day, on average?  
\_\_\_\_\_
29. Blair is making a granola recipe that calls for  $2\frac{2}{3}$  cups of oats and  $1\frac{1}{3}$  cups of cranberries. Blair mixes the oats and cranberries together. Each serving will contain  $\frac{1}{2}$  cup of granola. How many servings of granola will Blair's recipe make?  
\_\_\_\_\_
30. A box of powdered laundry detergent contains 5.2 ounces of detergent. It takes 0.7 ounce of detergent to clean a load of laundry. How many full loads can be cleaned with 3 boxes of this detergent?  
\_\_\_\_\_
31. A painter mixed 98.7 gallons of blue paint with 67.05 gallons of red paint in a paint-mixing machine. How much total paint is in the machine?  
\_\_\_\_\_
32. An insulated cooler holds 184 ounces of lemonade. How many full 12.4-ounce glasses of lemonade can be poured from the cooler?  
\_\_\_\_\_
33. Bret has a fish tank that holds 320 fluid ounces of water. On average, the water evaporates from the tank at a rate of 3.84 ounces per day. Bret went on vacation for 2 weeks, and asked a friend to feed his fish. The fish tank was full of water when Bret left. To the nearest hundredth, how many fluid ounces of water were left in the tank when Bret returned from his vacation?  
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34. A rug has an area of 122.12 square feet. The rug is 8.7 feet wide. To the nearest hundredth, how many feet long is the rug?
- \_\_\_\_\_
35. Tonya bought a bottle of body wash that contained 35.4 fluid ounces of soap. She uses about 1.25 ounces of body wash every time she showers. To the nearest hundredth, how many ounces of body wash are left in the bottle after Tonya has showered 15 times?
- \_\_\_\_\_
36. Suki buys dog food in 13.4-pound bags. She feeds her dog 0.3 pound of food twice a day. How many full days will the bag of food last?
- \_\_\_\_\_
37. A perfume manufacturer uses 0.875 pounds of rose petals to make each bottle of perfume. How many pounds of rose petals would be needed to make 86 bottles of perfume?
- \_\_\_\_\_
38. Will bought a pedometer to measure how far he walks every day. According to the pedometer, he moves about  $27\frac{5}{8}$  inches with each step he takes when he walks. How many feet did Will travel in 96 steps?
- \_\_\_\_\_
39. Reuben jogs 2.25 miles every weekday. On weekends, he jogs 1.8 times as far. To the nearest hundredth, how many miles does Reuben jog in 2 full calendar weeks?
- \_\_\_\_\_
40. Erik drove 439.92 miles on 15.6 gallons of gas. To the nearest hundredth, how many miles could he drive on 39.7 gallons of gas?
- \_\_\_\_\_
41. A manufacturer buys bolts from a supplier. The bolts cost \$0.17 each, but the manufacturer made a deal with the supplier and gets 4,000 bolts for \$595.50. To the nearest cent, how much money does the manufacturer save on 4,000 bolts with this deal?
- \_\_\_\_\_
42. The Indianapolis 500 gets its name because racecar drivers competing in the event drive 500 miles. In 1911, the winner of the Indianapolis 500 took 6.7 hours to complete the race. To the nearest hundredth, what was the average speed of the car in miles per hour?
- \_\_\_\_\_