

TEST NAME: **Number Systems (NS.1 and NS.2)**
TEST ID: **174853**
GRADE: **06**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

Student: _____

Class: _____

Date: _____

1. A jogging path is $8\frac{3}{4}$ miles in length. There is a water fountain every $1\frac{3}{4}$ miles along the path beyond the starting line. Which explanation can be used to find the total number of water fountains along this path?
- A. $8\frac{3}{4} \div 1\frac{3}{4} = 8$ fountains because $8 \times \frac{4}{3} = \frac{32}{3}$ and $\frac{32}{3} = 8$
- B. $8\frac{3}{4} \times 1\frac{3}{4} = 8$ fountains because $8 \div 1 = 8$ and $\frac{3}{4} \div \frac{3}{4} = 1$
- C. $8\frac{3}{4} \times 1\frac{3}{4} = 5$ fountains because $5 \times \frac{4}{7} = \frac{20}{7}$
- D. $8\frac{3}{4} \div 1\frac{3}{4} = 5$ fountains because $5 \times \frac{7}{4} = \frac{35}{4}$
2. A large bag of popcorn contains $9\frac{1}{3}$ cups. A serving of popcorn is $2\frac{2}{3}$ cups. How many servings are in the large bag of popcorn?
- A. $2\frac{1}{2}$
- B. $3\frac{1}{2}$
- C. $4\frac{1}{3}$
- D. $5\frac{2}{3}$
3. A track team ran $8\frac{3}{4}$ miles (mi) in 5 days. If they ran the same distance each day, how far did they run in one day?
- A. $\frac{9}{35}$ mi
- B. $1\frac{3}{5}$ mi
- C. $1\frac{3}{4}$ mi
- D. $3\frac{7}{9}$ mi

4. Joshua has $22\frac{1}{2}$ acres of land. He is selling the land in $\frac{1}{4}$ -acre lots. How many lots does Joshua have to sell?
- A. 44
B. 45
C. 85
D. 90
5. Scott washed cars for $2\frac{1}{2}$ hours as a fundraiser. It took him $\frac{1}{4}$ hour to wash one car. How many cars did Scott wash?
- A. 10
B. 8
C. 6
D. 5
6. A soccer field has an area of $\frac{7}{8}$ square miles. The length of the field is $\frac{2}{5}$ miles. What is the width of the soccer field?
- A. $\frac{16}{35}$ miles
B. $\frac{7}{20}$ miles
C. $\frac{35}{16}$ miles
D. $\frac{20}{7}$ miles

7. A family plans to take a trip in 2 years that will cost about \$6,000. How much money should the family save each month to pay for the trip?
- A. \$50
 - B. \$60
 - C. \$250
 - D. \$500
8. Darius ran 10,000 m on a track. Each lap on the track is 200 m. How many laps did Darius run?
- A. 5
 - B. 50
 - C. 500
 - D. 5,000
9. A family of four used about 11,370 gallons of water in their home last month. There were 30 days in the month. **About** how many gallons of water did each person use each day?
- A. 78
 - B. 95
 - C. 312
 - D. 379
10. Bonnie's new car loan is \$27,360. She will make equal payments every month for 5 years. What will be the monthly payment on Bonnie's car loan?
- A. \$401
 - B. \$456
 - C. \$501
 - D. \$547

11. Logan is using long division to solve $2,632 \div 28$. What must Logan do with 28 to find the first digit in the quotient?
- A. Subtract it from the digits 263 in the dividend.
 - B. Subtract it from the digits 32 in the dividend.
 - C. Divide it into the digits 263 in the dividend.
 - D. Divide it into the digits 32 in the dividend.
12. Ticket sales for a concert totaled \$113,740. Each ticket cost \$22. How many tickets were sold for the concert?
- A. 503
 - B. 517
 - C. 5,030
 - D. 5,170