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## Course 1 Benchmark Test - Second Quarter

1. Raul is making a scale model of an airplane that has a wingspan of 44 feet. If Raul's scale model is $\frac{1}{16}$ the size of the actual airplane, what is the wingspan of his model?
A. 704 ft
B. 60 ft
*C. $2 \frac{3}{4} \mathrm{ft}$
D. $1 \frac{2}{3} \mathrm{ft}$
2. Two-thirds of the students in Hannah's homeroom plan to do some volunteering this summer. Of these students, $\frac{3}{5}$ plan to volunteer at the community center. What fraction of the students in Hannah's homeroom plan to volunteer at the community center this summer?
F. $\frac{2}{3}$
G. $\frac{3}{5}$
*H. $\frac{2}{5}$
I. $\frac{1}{15}$
3. SHORT ANSWER Which point on the number line is closest to the product of the numbers graphed at points $R$ and $T$ ? Explain your answer.

point Q; Point $R=\frac{7}{10}$ and Point $T=\frac{9}{10} \cdot \frac{7}{10} \cdot \frac{9}{10}=\frac{63}{100}$ and $\frac{63}{100} \approx$ $\frac{6}{10}$, point $Q$.
4. In which quadrant does point A lie on the coordinate plane?

A. I
*B. II
C. III
D. IV
5. Which of the following integers has the greatest absolute value?
F. 0
G. 7
*H. -10
I. 1
6. The Panthers football team lost 4 yards on each of their first two plays of the game. Which of the following integers represents the progress of the team after the first two plays?
*A. -8
B. -4
C. 4
D. 8
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## Course 1 Benchmark Test - Second Quarter

7. The table shows the record low temperatures of four different towns. Which of the following shows the record temperatures ordered from least to greatest?

| Record Low Temperatures |  |
| :--- | :---: |
| Town | Temperature ( ${ }^{\circ}$ F) |
| Oakmont | -7 |
| Cherry Grove | 3 |
| Anderson Hills | 11 |
| Glentown | -2 |

F. $11,3,-2,-7$
G. $-2,3,-7,11$
H. $-2,-7,3,11$
*I. $-7,-2,3,11$
8. Which of the following expressions correctly uses exponents to show the prime factorization of 360 ?
A. $2^{4} \times 3^{2} \times 5$
*B. $2^{3} \times 3^{2} \times 5$
C. $2^{4} \times 3 \times 5$
D. $2^{3} \times 3 \times 5^{2}$
9. The expression $\frac{d}{t}$ can be used to find the average speed of an object that travels a distance $d$ in time $t$. What is a car's average speed if it travels 145 miles in 2.5 hours?
*F. 58 miles per hour
G. 62 miles per hour
H. 65 miles per hour
I. 362.5 miles per hour
10. Which of the following expressions is equivalent to $6(5+3 x)$ ?

A $30+3 x$
B $11+9 x$
*C $30+18 x$
D $11+3 x$
11. SHORT ANSWER Graph and label point $\mathrm{W}(4,-1)$ on the coordinate plane.

12. What are the coordinates of the point in Quadrant IV on the coordinate plane?

F. $(4,1)$
G. $(1,4)$
H. $(-4,5)$
*I. (5, -4)
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## Course 1 Benchmark Test - Second Quarter

13. Which of the following rational numbers represents a repeating decimal?
*A. $\frac{25}{48}$
B. $\frac{11}{40}$
C. $\frac{7}{32}$
D. $\frac{3}{25}$
14. The top students in a distance throwing competition are shown in the table. How many yards did the winner of the competition throw the ball?

| Distance Throwing Competition |  |
| :--- | :---: |
| Student | Distance (ft) |
| Ashley | 162 |
| Craig | 156 |
| Fernando | 175 |
| Robert | 166 |

F. 525 yards
G. 468 yards
*H. $58 \frac{1}{3}$ yards
I. 52 yards
15. SHORT ANSWER Define a variable and write an expression to represent the following phrase.
seven years younger than Lisa
Let a represent Lisa's age; a-7
16. Mrs. Rome has $\frac{2}{3}$ of a pan of lasagna left after dinner. She wants to divide the leftover lasagna into 4 equal servings. What fraction of the original pan does each serving represent?
A. $\frac{1}{12}$
*B. $\frac{1}{6}$
C. $\frac{1}{4}$
D. $\frac{3}{8}$
17. Jeff is making fruit punch for the school dance. He needs $3 \frac{3}{4}$ cups of pineapple juice per batch. If Jeff wants to make $4 \frac{1}{2}$ batches of punch, how many cups of pineapple juice will he need?
F. $8 \frac{1}{4}$ cups
G. $12 \frac{3}{8}$ cups
H. $15 \frac{1}{2}$ cups
*I. $16 \frac{7}{8}$ cups
18. Which of the following symbols, when placed in the blank, makes the number sentence true?

$$
\frac{11}{12}-0.916666 \ldots
$$

A. +
*B. =
C. $<$
D. $>$
$\qquad$
$\qquad$
$\qquad$

## Course 1 Benchmark Test - Second Quarter (continued)

19. SHORT ANSWER A kindergarten teacher has $22 \frac{1}{2}$ cups of juice to be divided equally among her students. If each student is to receive $1 \frac{1}{4}$ cups of juice, how many students are there?

## 18 students

20. A plumber has 28 feet of PVC pipe that he wants to cut into sections that are $2 \frac{1}{3}$ feet long. How many sections of pipe will the plumber have in all?
F. $14 \frac{1}{3}$ sections
G. $13 \frac{1}{2}$ sections
*H. 12 sections
I. 11 sections
21. Which property is represented by the equation below?

$$
\frac{2}{3} \times \frac{3}{2}=1
$$

*A. Multiplicative Inverse Property
B. Multiplicative Identity Property
C. Distributive Property
D. Commutative Property of Multiplication
22. Alexandria is evaluating the expression below.

$$
3 \times 8 \div 2+(4-1)^{2}
$$

Which operation should be performed first according to the order of operations?
F. Multiply 3 and 8.
G. Divide 8 by 2 .
*H. Subtract 1 from 4.
I. Evaluate the power.
23. Which of the following coordinate planes correctly shows point $G(4,-5)$ graphed?
A.

B.

C.

*D.

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## Course 1 Benchmark Test - Second Quarter (continued)

24. Which number line shows two different integers with the same absolute value?

G.

H.

I.

25. SHORT ANSWER Use the Distributive Property to write a numerical expression that is equivalent to $25+10$.
$5(5+2)$
