

TEST NAME: **Homework Week of 10/6/14**
TEST ID: **281150**
GRADE: **07**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

Student: _____

Class: _____

Date: _____

1. An athlete at a track meet jumped $43\frac{1}{4}$ feet (ft) on his first triple jump and $41\frac{1}{2}$ ft on his second jump. How much longer was his first jump than his second jump?

A. $2\frac{3}{4}$ ft

B. $2\frac{1}{4}$ ft

C. $1\frac{3}{4}$ ft

D. $1\frac{1}{4}$ ft

2. What is $\frac{1}{6}$ written in decimal form?

A. 0.1

B. 0.16

C. 0.16

D. 0.166

3. Look at the expression shown.

$$\left| \frac{-6}{2} \right| - \left| \frac{-9}{3} \right| + \left| \frac{12}{4} \right|$$

What is the value of the expression?

A. 3

B. 0

C. -3

D. -6

4. A room has an area of 180 square feet. A customer needs an area rug that is exactly $\frac{2}{5}$ the area of this room.

Which area for a rug fits these conditions?

- A. 144 square feet
- B. 108 square feet
- C. 72 square feet
- D. 36 square feet

5. Evaluate the expression below.

$$25 + (-17) + 16$$

If a 4th number was added to this expression to make the value of the new expression equal 0, what would the 4th number be?

- A. -26
- B. -24
- C. 24
- D. 26

6. Which pair of quantities results in a net result of 0?

- A. a person spent \$5 and then found 5 quarters
- B. a price increased by 10% and then decreased by \$10
- C. a temperature dropped 0.5°F and then warmed up by $\frac{1}{2}^{\circ}\text{F}$
- D. a height dropped 15 feet below sea level and then descended 15 feet

7. Which expression can be used to find the distance between an elevation of 510 feet above sea level and 461 feet below sea level?

- A. $|-510| - 461$
- B. $510 + -461$
- C. $|-510 - (-461)|$
- D. $510 + |-461|$

8. Using the distributive property, which expression is equivalent to $\left(-\frac{1}{2}\right)(24 - 16)$?

A. $-12 + -8$

B. $-12 + 8$

C. $-12 - 16$

D. $-12 + 16$

9. Abby used long division to convert each fraction shown into a decimal equivalent.

$$\frac{1}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11}$$

Which statement is true about the decimal equivalents?

A. They are terminating decimals.

B. Some are non-repeating decimals.

C. They are repeating decimals after 2 digits.

D. Some are repeating decimals after 3 digits.

10. The total weight of a mother carrying a child is $145\frac{1}{2}$ pounds. If the child weighs n pounds and the mother weighs 138 pounds, which sum can be used to find n ?

A. $-145\frac{1}{2} + 138$

B. $145\frac{1}{2} + 138$

C. $-145\frac{1}{2} + (-138)$

D. $145\frac{1}{2} + (-138)$

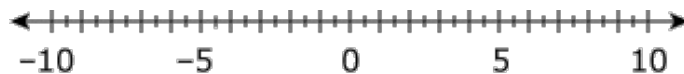
11. What is the product of $-\frac{6}{8} \cdot \frac{2}{3}$?

- A. -2
- B. $-\frac{9}{8}$
- C. $-\frac{1}{2}$
- D. $-\frac{1}{6}$

12. What is $\left|-\frac{2}{3}\right| + \frac{5}{6} + \left(-\frac{1}{4}\right)$ in simplest form?

- A. $-\frac{7}{5}$
- B. $-\frac{1}{12}$
- C. $\frac{2}{13}$
- D. $\frac{5}{4}$

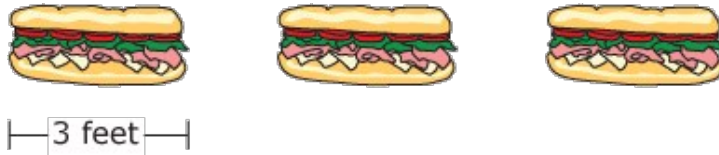
13. Tina chose two points on this number line.



If the distance between the two points is between 2 and 3 units, which pair of numbers could be the points Tina chose?

- A. $-3\frac{1}{2}$ and 1
- B. $-3\frac{1}{2}$ and -6
- C. $3\frac{1}{2}$ and -4
- D. $3\frac{1}{2}$ and 4

14. A chef prepared sandwiches that are 3 feet long, as seen in the diagram.



How many $4\frac{1}{2}$ inch sandwiches can be cut out of these three sandwiches?

- A. 8
- B. 9
- C. 16
- D. 24

15. A group of 24 students paid to go to a museum and $\frac{1}{3}$ of this group also paid to attend a 3-D movie at the museum. The ticket prices are shown below.

\$13.50 for each student museum admission

\$4.50 for each 3-D movie admission

What was the total dollar amount this group of students spent on museum and 3-D movie tickets?

- A. \$432
- B. \$324
- C. \$360
- D. \$216

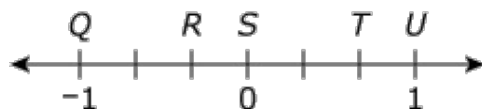
16. Which expression is equivalent to $7\frac{3}{4} - \left(3\frac{1}{2}\right)$?

- A. $7.75 + (-3.5)$
- B. $7.75 - (-3.5)$
- C. $3.5 + (-7.75)$
- D. $3.5 - (-7.75)$

17. What is $-\frac{5}{12} \div -10$ in simplest form?

- A. $\frac{1}{24}$
- B. $\frac{1}{6}$
- C. -24
- D. -6

18. Find the number represented by each point on the number line.



Which quotient is **not** a rational number?

- A. $\frac{U}{S}$
- B. $\frac{R}{T}$
- C. $\frac{Q}{U}$
- D. $\frac{S}{T}$

19. Sheldon practiced the piano $\frac{2}{3}$ of an hour on Monday, $\frac{1}{6}$ of an hour on Tuesday, and $\frac{3}{4}$ of an hour on Thursday. How many hours did Sheldon practice piano?

- A. $1\frac{1}{2}$ hours
- B. $1\frac{7}{12}$ hours
- C. $1\frac{3}{4}$ hours

20. What is the value of $-0.13 \div -2.6$?

A. -0.05

B. 0.02

C. 0.05