

Student: _____
Date: _____
Time: _____

Instructor: Bethany Mampre
Course: digits - grade 7 (4)
Book: digits - grade 7

Assignment: Topic 4 Test

1. Determine whether the given number belongs to each set.

	Whole Numbers	Integers	Rational Numbers
-14	?	?	?

Complete the table below.

	Whole Numbers	Integers	Rational Numbers
-14	No Yes	No Yes	Yes No

2. Order the values from least to greatest.

$$|-26| \quad |0.06| \quad |6|$$

Choose the correct answer below.

A. $|0.06|, |-26|, |6|$

C. $|6|, |0.06|, |-26|$

E. $|-26|, |6|, |0.06|$

B. $|0.06|, |6|, |-26|$

D. $|-26|, |0.06|, |6|$

F. $|6|, |-26|, |0.06|$

3. Find the sum.

$$\left(-\frac{4}{5}\right) + \frac{2}{5}$$

$$\left(-\frac{4}{5}\right) + \frac{2}{5} = \square \text{ (Type an integer or a fraction.)}$$

4. Add.

$$-7.7 + (-1.3)$$

$$-7.7 + (-1.3) = \square \text{ (Type an integer or a decimal.)}$$

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Find the value of the expression.

$$2 - (-5)$$

$$2 - (-5) = \square$$

Mischa dives from a platform that is 5 meters above water. Her dive takes her 1.5 meters below the surface of the water. How far does Mischa's dive take her?

Mischa's dive takes her \square meters.

Writing Find the product $-48(-1)$. Use pencil and paper. Describe how you use the properties of multiplication to find the product.

$$-48(-1) = \square$$

Error Analysis Find $(-8)(-2)(6)$. Use pencil and paper. Describe an error you could make that results in the opposite of the correct product.

$$(-8)(-2)(6) = \square$$

Football A football team loses 5 yards on each of 3 consecutive plays. Find the total change in yards from where the team started.

The total change is \square yards.

10. Some friends played a board game. During the game, one unlucky player had to move back 5 spaces 8 turns in a row. Find a number to represent that player's movements for those 8 turns.

The number \square represents that player's movements for those 8 turns.

11. Multiply. Use pencil and paper. Explain why you can find $18 \cdot (-3)$ by finding $-3 \cdot (18)$.

$$18 \cdot (-3)$$

$$18 \cdot (-3) = \square$$

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12. Find the product $(-7)(-3)$. Find the product $(-2)(-9)$. Which product is greater?

$$(-7)(-3) = \square$$

$$(-2)(-9) = \square$$

The product is greater.

$$(-2)(-9)$$

$$(-7)(-3)$$

13. Find the product.

$$-\frac{2}{3} \cdot \frac{5}{7}$$

$$-\frac{2}{3} \cdot \frac{5}{7} = \square \text{ (Type an integer or a simplified fraction.)}$$

14. Multiply.

$$-3\frac{2}{3} \cdot -1\frac{3}{4}$$

$$-3\frac{2}{3} \cdot -1\frac{3}{4} = \square \text{ (Type an integer, proper fraction, or mixed number.)}$$

15. Multiply.

$$(-0.4)(-0.45)$$

$$(-0.4)(-0.45) = \square \text{ (Type an integer or a decimal.)}$$

16. **Reasoning** What is the sign of the product $(-5)\left(\frac{1}{7}\right)(-8)$? Use pencil and paper to explain your reasoning.

The product is negative.
 positive.

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17. Multiply.

$$(-2.886)(19.57)$$

$$(-2.886)(19.57) = \square \text{ (Type an integer or a decimal.)}$$

18. Classify the quotient as positive, negative, zero, or undefined.

$$-16 \div 4$$

Select the correct choice below.

- A. The quotient is negative.
- B. The quotient is zero.
- C. The quotient is positive.
- D. The quotient is undefined.

19. Divide.

$$\frac{-64}{8}$$

Select the correct choice below and fill in any answer boxes within your choice.

- A. $\frac{-64}{8} = \square$
- B. The expression is undefined.

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20.

Which of these is the reciprocal of $-\frac{17}{3}$?

$$-\frac{17}{3}$$

$$\frac{17}{3}$$

$$-\frac{3}{17}$$

$$\frac{3}{17}$$

Choose the correct answer below.

A. $\frac{3}{17}$

B. $\frac{17}{3}$

C. $-\frac{17}{3}$

D. $-\frac{3}{17}$

21.

Divide and simplify.

$$\frac{8}{9} \div \left(-\frac{7}{5}\right)$$

$$\frac{8}{9} \div \left(-\frac{7}{5}\right) = \square \text{ (Type an integer or a simplified fraction.)}$$