

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### RNS, Integer and Fraction Quiz Review

1. Name an example of a real number that is a whole, but not a natural number.

0

2. Name an example of an irrational number.

$\pi$ ,  $\sqrt{7}$ , 4.682...

3. Name an example of a number that is rational but not an integer.

$\frac{3}{4}$ , -6.2,  $4.\overline{85}$

4.  $-27 + 9$

-18

5.  $(-3)(-22)$

66

6.  $-13 - 10$

-23

7.  $-85 - 36$

-121

8.  $-50 \div -5$

10

9.  $45 \div -9$

-5

10. Convert the mixed number  
an improper fraction

$$3\frac{4}{7} = \frac{25}{7}$$

11. Convert the improper into  
fraction to a mixed number

$$8 \overline{)45} \begin{array}{r} 5 \\ -40 \\ \hline 5 \end{array}$$

$$\frac{45}{8} = 5\frac{5}{8}$$

$$12. \frac{28}{7} \cdot \frac{71}{123} = \boxed{\frac{2}{3}}$$

$$13. -\frac{5}{9} + \frac{2}{9} = -\frac{3}{9} = \boxed{-\frac{1}{3}}$$

$$14. \frac{52}{62} \left( -\frac{3}{4} \right)^3$$

$$\frac{10}{12} \cdot \frac{9}{12} = \frac{19}{12} = \boxed{1\frac{7}{12}}$$

$$15. \frac{15}{22} \cdot -\frac{84}{255} = \boxed{-\frac{12}{55}}$$

$$16. 2\frac{15}{45} - \frac{3}{5} \cdot \frac{4}{4}$$

$$12\frac{35}{20} - \frac{12}{20} = \boxed{12\frac{13}{20}}$$

$$17. -\frac{2}{5} \div -4$$

$$-\frac{2}{5} \cdot -\frac{1}{4} = \boxed{\frac{1}{10}}$$

$$18. 2\frac{3}{4} \div 1\frac{1}{2}$$

$$\frac{11}{4} \div \frac{3}{2}$$

$$2\frac{11}{4} \cdot \frac{2}{3} = \frac{11}{6} = \boxed{1\frac{5}{6}}$$

$$19. 3 + (-45 \div 5) \cdot 8 - (-15)$$

$$3 + -9 \cdot 8 - (-15)$$

$$3 + -72 - (-15)$$

$$-69 + 15 = \boxed{-54}$$

20. The penguin nursery is open two times a day:  $\frac{2}{3}$  hour at noon and  $\frac{5}{12}$  hour in the afternoon. How much time is the penguin nursery open every day

$$\frac{2}{3} + \frac{5}{12}$$

$$\frac{8}{12} + \frac{5}{12} = \frac{13}{12}$$

$$1\frac{1}{12} \text{ hours}$$

21. Two fish are in a fish tank. A blue fish is  $6\frac{3}{5}$  inches long and a red fish is  $4\frac{1}{8}$  inches long. How much longer is the blue fish than the red fish?

$$6\frac{3}{5} - 4\frac{1}{8}$$

$$6\frac{24}{40} - 4\frac{5}{40} = 2\frac{19}{40} \text{ inches}$$

22. Renee had a box of cupcakes and she gave  $\frac{1}{2}$  of her cupcakes to her friend Juan. Juan gave  $\frac{3}{4}$  of his share to his friend Macy. What fractional portion of the original box of cupcakes did Macy get?

$$\frac{1}{2} \times \frac{3}{4} = \frac{3}{8} \text{ of the full box}$$

23. An electrician has a piece of wire that is  $4\frac{3}{8}$  centimeters long. She divides the wire into pieces that are  $1\frac{2}{3}$  centimeters long. How many pieces does she have?

$$4\frac{3}{8} \div 1\frac{2}{3}$$

$$\frac{35}{8} \div \frac{5}{3}$$

$$7\frac{35}{8} \times \frac{3}{5} = \frac{21}{8} = 2\frac{5}{8} \text{ pieces}$$