

Scientific Notation

15.) Dust mites are microscopic creatures that feed on flakes of skin that people and animals shed. These organisms are about 0.00000026 meters in length. What is this length expressed in scientific notation?

- A. 24×10^{-9}
- B. 2.4×10^{10}
- C. 2.4×10^{-10}
- D. 2.4×10^{-7}

16.) The length of the river is about 5,700,000 kilometers. What is the length written in scientific notation?

- A. $5.7 \times 10^2 \text{ km}$
- B. $5.7 \times 10^6 \text{ km}$
- C. $5 \times 10^{-6} \text{ km}$
- D. $5.7 \times 10^{-3} \text{ km}$

Comparing and Ordering Real Numbers

17.) The money in Juan's savings account earns

$2\frac{1}{9}\%$ interest. Which value is less than

$2\frac{1}{9}\%$?

- F. 0.0211
- G. 0.125
- H. 0.011
- J. $\frac{2}{9}$

18.)

There are four students working on an assignment in a class.

Mike has completed $\frac{1}{4}$ of the assignment, Gwen has completed 25.5% of the assignment, Jorge has completed 0.3 of the assignment, and Tai has completed $\frac{2}{9}$ of the assignment.

Which of the following lists the students in order from least to greatest by the amount of the assignment they completed?

- A. Gwen, Mike, Jorge, Tai
- B. Tai, Jorge, Mike, Gwen
- C. Gwen, Jorge, Mike, Tai
- D. Tai, Mike, Gwen, Jorge

Classifying Real Numbers

19.) Kate is classifying sets of numbers. She is making the following tables and needs help classifying $\sqrt{36}$

	Whole	Integers	Rational	Irrational
π				x
$\sqrt{36}$				
0.56			x	
-2		x	x	

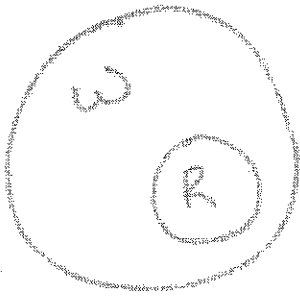
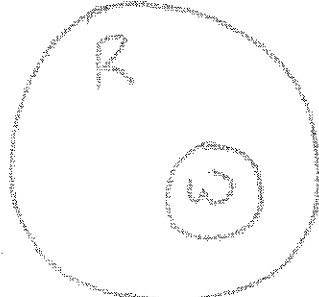
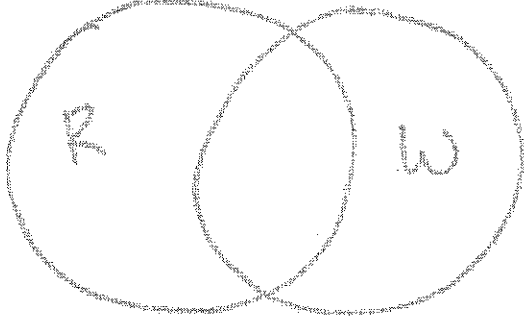
In which sets does -4 belong?

- a.) Integers only
- b.) Whole numbers and Integers only
- c.) All the sets
- d.) Whole, Integers, and Rational Numbers

20.) Which Venn diagram correctly describes the relationship between Set R and Set W?

R = Real Numbers

W = Whole Numbers

<p>A. All real numbers are whole numbers</p> 	<p>B. All whole numbers are real number</p> 
<p>C. Some whole numbers are not real numbers</p> 	<p>D. Whole numbers and Real numbers have no elements in common</p> 