

Name: _____

Warm Up

Solve the problems below to find one group of people who use exponents every day on the job. For each exercise, determine which box matches the value shown. Write the letter of that box in the appropriate blank below.

A group of people who use exponents every day are:

$\frac{1}{2} \cdot 7 \cdot 7 \cdot 7$		$\frac{2}{7} \cdot \frac{2}{7} \cdot \frac{2}{7}$	
A	1. _____	S	2. _____
$\left(\frac{2}{7}\right)^3$		$0.8 \cdot 0.8$	
		C	0.8^2
		$\frac{1}{8} \cdot \frac{1}{8}$	
		T	

$3 \cdot 3 \cdot 3 \cdot 3$		$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3}$	
O	3. _____	I	4. _____
3^{-4}		$3 \cdot 3 \cdot 3 \cdot 4$	
		R	$\left(\frac{3}{4}\right)^3$
		$\frac{3}{4} \cdot \frac{3}{4} \cdot \frac{3}{4}$	
		E	

$5 \cdot 5 \cdot 5$		$\frac{1}{5} \cdot \frac{1}{5} \cdot \frac{1}{5}$	
N	5. _____	S	6. _____
5^3		$2 \cdot 2 \cdot 2 \cdot 2$	
		T	2^4
		$\frac{2}{5} \cdot \frac{2}{5} \cdot \frac{2}{5} \cdot \frac{2}{5}$	
		S	

$5 \cdot 6 \cdot 6$		$\frac{5}{6} \cdot \frac{1}{6}$	
F	7. _____	I	8. _____
$\frac{5}{6^2}$		$9 \cdot 9 \cdot 9 \cdot 9$	
		E	9^{-4}
		$\frac{1}{9} \cdot \frac{1}{9} \cdot \frac{1}{9} \cdot \frac{1}{9}$	
		S	

$3 \cdot 3 \cdot 3$		$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3}$	
T	9. _____	N	10. _____
3^3		$8 \cdot 8 \cdot 8 \cdot 8$	
		L	$\frac{1}{8^4}$
		$\frac{1}{8} \cdot \frac{1}{8} \cdot \frac{1}{8} \cdot \frac{1}{8}$	
		S	

A group of people who use exponents every day are:

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

SOLUTION: **SCIENTISTS**