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## Classification of Numbers and Laws of Exponents In-Class Assignment

/28

[10]

1. Identify all the number sets/groups in which a given number belongs. Use the symbols for the number sets and a capital W for whole numbers.

Number	Sets/groups
√-36	
-1	
π	
$\frac{2.3}{6}$	
<b>-4</b> <sup>2</sup>	
125	
$\sqrt{121}$	
15.25	
$\sqrt{13}$	
110 55	

[2]

2. Circle the base in each algebraic expression or number.

$\frac{(4x^7)}{15}$	-(5) <sup>4</sup>	$-(-8a)^5$	$(15z^8)^3$
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3. Simplify. Do not evaluate. If the result has a negative exponent, rewrite your answer with a positive exponent.

$b^{-5}b^2$	$\frac{(a^3)^{-7}}{xa^{25}}$
$6xx^{-3}$	$x^0$ where $x \neq 0$
$\left[\frac{(a^2)^{-5}}{6a^6}\right]^2$	$2x^5x^{-6}$
$\{[2x^5x^{-6}]^2\}^{-3}$	$\left[\frac{(x^{-3})^{-1}}{(6a^6)^0}\right]^5$