

2pts

2. Use this base four number-line (or use "thinking strategies") to do the following problems:



4pts

3. Give the name of the property of whole numbers that each of the following illustrates.

a.	$5 \ge 1 = 5$	identity for multiplication
b.	3(8+7) = 3(8) + 3(7)	distributive property
c.	(9 x 2) x 7 = 9 x (2 x 7)	associative property
d.	5 + (4 + 3) = 5 + (3 + 4)	commutative property

3pts

4. Is this set {0, 5, 10, 15, 20, 25, 30, ...} of multiples of five closed for division? _ No____ Explain.

When you divide two numbers from this set you may get answers that are NOT in this set.

For example: 10 divided by 5 = 2

2pts

5. Rewrite with a single exponent. Show your steps to illustrate the rules of exponents that you used.

$$3^5 \cdot 9^3 = 3^5 \cdot (3^2)^3 = 3^5 \cdot 3^6 = 3^{11}$$