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The Zero-product Property

Here is a question that you will eventually answer at the end of this worksheet "if a•b = 0, then what must be true about a or b?"

Part 1 Calculate the following:

Part 2 Answer the following questions

What do you notice about the products from part 1? When does each product equal zero?

If I know that a times 6 is zero (in other words, if I know that a•6 = 0) what must a be? How do you know?

If I know that 12 times b is zero (in other words, if I know that 12•b = 0) what must b be? How do you know?

So if I know that a•b = 0, what must be true about a or b?