

## B: Multiplying Integers

Remember sign rules.

$$\text{pos} \times \text{pos} = \text{pos}$$

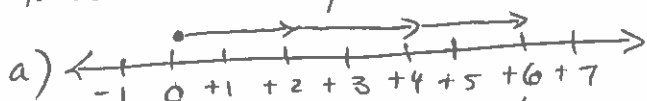
$$\text{neg} \times \text{neg} = \text{pos}$$

$$\text{pos} \times \text{neg} = \text{neg}$$

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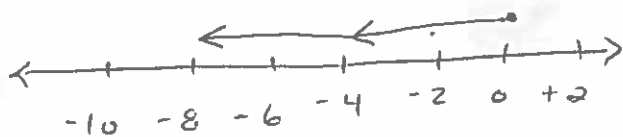
Examples:

1. What multiplication statement does each diagram represent?



$$(+3) \times (+2) = +6$$

arrows each increment



$$(+2) \times (-4) = -8$$

arrows increment

2. Determine each product.

a)  $(+20) \times (+8)$

$$= +160$$

b)  $(-14) \times (+10)$

$$= -140$$

c)  $(-12) \times (-12)$

$$= +144$$

d)  $(-24) \times (+4)$

$$= -96$$

e)  $(+22) \times 0$

$$0$$

f)  $(-8) \times 0$

$$0$$

g)  $(-1) \times (+3)$

$$= -3$$

Assignment  
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(Make sure  
you estimate)