

## C: Dividing Integers

Same sign rules:

$$\text{○ } + \div + = +$$

$$- \div - = +$$

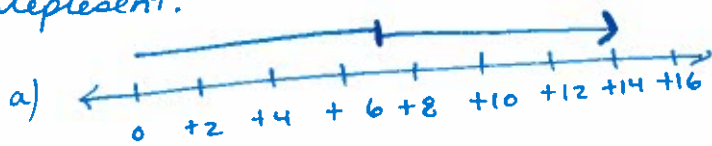
$$+ \div - = -$$

$$- \div + = -$$

\* Try to think sign  $\div$  sign then  $\# \div \#$ .

### Examples

1. Write two division statements that each diagram could represent.



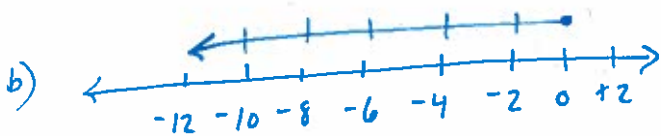
$$(+14) \div (+2) = +7$$

end  $\uparrow$  number  
amount of arrows (separations)  
where 1st "tick" falls (increments)

or

$$(+14) \div (+7) = (+2)$$

end  $\uparrow$  number  
1st "tick" (increments)  
number of arrows (separations)



$$(-12) \div (+2) = (-6)$$

end  $\uparrow$  number  
amount of arrows (separations)  
where 1st "tick" falls.

or

$$(-12) \div (+6) = (-2)$$

end  $\uparrow$  number  
where 1st tick falls (increments)  
number of arrows (separations)

2. Determine each quotient.

a)  $(+24) \div (+6)$   $+ \div +$  is +ive.  
 $= +4$   $24 \div 6 = 4$

b)  $(-28) \div (-7)$   $- \div -$  is +ive.  
 $= +4$   $28 \div 7 = 4$

c)  $(+20) \div (-5)$   $+ \div -$  is -ive.  
 $= -4$   $20 \div 5 = 4$

d)  $(-84) \div (+2)$  -ive  $\div$  +ive is -ive  
 $= -42$   $84 \div 2 = 42$

e)  $(-30) \div (-30)$   $- \div -$  is +ive  
 $= +1$   $30 \div 30 = 1$

f)  $0 \div (-11)$  \* 0 divided by anything is 0!!!  
 $= 0$  \* Don't give zero a sign!

Assignment Pg. 310 #5-10

(for 7-10 just divide don't use a number line.)