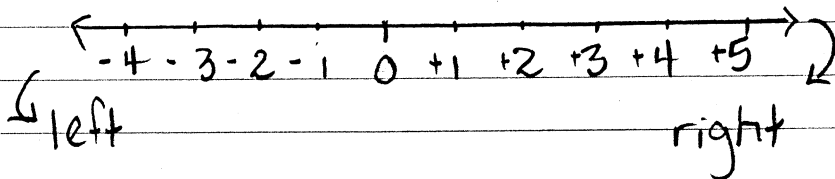


Integers Review

Sept 17/13

① Integers → show direction above or below zero



→ integers to the right are bigger

Ex: -3 is larger than -100

→ two opposite integers are -6 and +6

② Adding Integers

a) $(-3) + (-8)$ b) $-7 + 4$ c) $(+1) - 1$

$= -11$

$= -3$

$= 0$

③ Subtracting Integers

→ Add the opposite ★

a) $(-5) - (-4)$

$= (-5) + (+4)$

$= -1$

cont'd →

Sept 17, 13

④ "Clearing the Junk"

→ write down the integers to be collected without brackets"

$$a) (-2) - (+4) + (-3) - (-2) + (+7)$$

$$= -2 - 4 - 3 + 2 + 7$$

$$= -9 + 9$$

$$= 0$$

* When subtracting, add the opposite

⑤ Multiplying & Dividing Integers

same signs → positive answer

different signs → negative answer

$$a) (-3)(-5)$$

$$= +15$$

$$b) \frac{21}{-3}$$

$$= -7$$

$$c) (-2)(+6)(-3)$$

$$= (-12)(-3)$$

$$= +36$$

$$d) (-2)(-5)(+1)(-3)$$

$$= (+10)(+1)(-3)$$

$$= (+10)(-3)$$

$$= -30$$

⑥ Exponents

$$a) (-2)^3$$

$$= (-2)(-2)(-2)$$

$$= -8$$

$$b) -2^3$$

$$= -(2)(2)(2)$$

$$= -8$$

cont'd →

Sept 17/11

Exponents cont'd

c) $(-1)^{20}$ * if exponent is even number \rightarrow positive answer
 $= +1$

d) $(-1)^{21}$ * if exponent is odd number \rightarrow negative answer
 $= -1$

⑦ BEDMAS

a) $-3(-1-3) + 4^2$
 $= -3(-4) + 4^2$
 $= -3(-4) + 16$
 $= +12 + 16$
 $= 28$

⑧ Substitution \rightarrow sub using Brackets

Evaluate if $x = -2$

a) $-5x + 8$
 $= -5(-2) + 8$
 $= +10 + 8$ $\rightarrow = 18$

