

Sept. 5, 2017

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Grade 9 Academic

Welcome back!

# Grade 8 Review

## Integers

These are positive and negative whole numbers.

Negatives are "opposites"

So  $-4$  is the opposite of  $4$ .

Ex. 1:

$$a) 2 + 3 = \boxed{5}$$

$$b) (-2) + (-3) = \boxed{-5}$$

$$c) (-4) + (-9) = \boxed{-13}$$

$$d) 3 + (-8) = \boxed{-5}$$

$$e) 29 + (-3) = \boxed{26}$$

$$f) 18 - (-4) =$$

$$= 18 + 4 = \boxed{22}$$

$$g) (-13) + (-8) - (-7)$$

$$= -21 - (-7)$$

$$= -21 + 7 = \boxed{-14}$$

# Multiplying and Dividing Integers

$$+ \cdot + = +$$

multiply

$$+ \cdot - = -$$

$$- \cdot + = -$$

$$- \cdot - = +$$

Ex. 2:

$$a) (-3) \cdot (-2) = \boxed{+6}$$

$$b) 4 \cdot (-3) \cdot 2 =$$

$$(-12) \cdot 2 = \boxed{-24}$$

$$c) (-2) \cdot (-2) \cdot (-2) \cdot (-3) =$$

$$= (4) \cdot (-2) \cdot (-3)$$

$$= (-8) \cdot (-3) = \boxed{24}$$

fast way

$$\boxed{+24}$$

d)  $26 \div (-2) =$

$$\frac{26}{-2} = \boxed{-13}$$

e)  $\frac{-16}{-4} = \boxed{4}$

$$f) \frac{232}{-4} = \boxed{-58}$$

$$\begin{array}{r} 58 \\ 4 \overline{) 232} \\ \underline{-20} \phantom{2} \\ 32 \\ \underline{32} \\ 0 \end{array}$$



# Homework

- 1) signed course outline
- 2) watch video
- 3) homework sheet