

Chapter 8 Integers

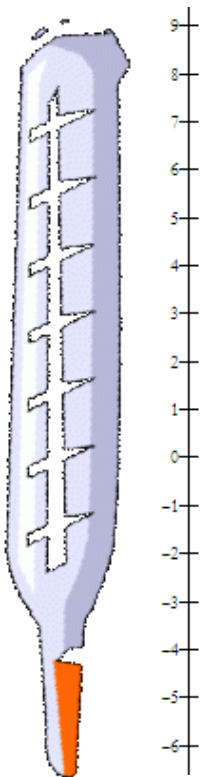
8.1a	Adding Integers	Worksheets
8.1b	Subtracting Integers	Worksheets
8.2	Multiplying Integers	P297 #4, 5, 7-13, 16, 19-22, 25, *26, 29
8.4	Dividing Integers	P310 #7-10, 11-15, 18, 21, *22
8.5	Applying Integer Operations	P315 #4-7, 8, 9, 12, 14, 15, 17, 19, 20, 21, 22
8.6	Chapter Review	P318 #1-3, 5-11, 13, 15, 17-24

Unit Test

Vocabulary

Date: _____

8.1a Notes: Review of Adding Integers



When Marty comes home, the temperature is 6 degrees Celsius, but overnight the temperature drops by 8 degrees.

a) Write 2 different equations that could be used to find the answer.

b) What would the new temperature be?

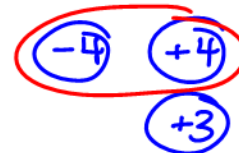
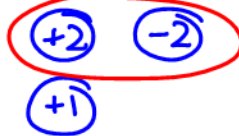
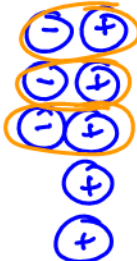
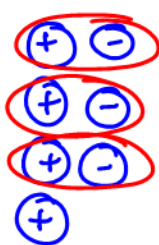
The following week, Marty wakes up and it is -3 degrees Celsius outside. By noon, it warms up to 6 degrees. Write an equation to represent this.

⊕ positive 1 chip
⊖ negative 1 chip.
⊕ ⊖ zero pair

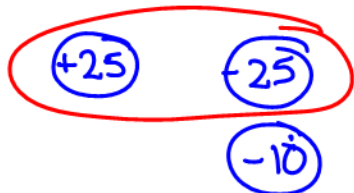
Adding can be represented using colour chips.

Draw diagrams to represent each addition/subtraction

$4 + (-3) = +1 \text{ or } 1$ $(-3) + 5 = +2 \text{ or } 2$ $3 + (-2) = +1 \text{ or } 1$ $(-4) + 7 = +3 \text{ or } 3$



$(+25) + (-35) = -10$



Evaluate the following:

$$9 + (-4) = +5$$

$$(-3) + 7 = +4$$

$$(-3) + (-4) = -7$$

$$5 + (-3) = +2$$

$$12 + 5 = +17$$

$$-4 + (-4) = -8$$

Calculate:

$$(-3) + (-2) = -5$$

$$(-6) + (-1) = -7$$

$$(-9) + (-8) = -17.$$

what if you add 2 negatives?

- you get something more negative.

What do you notice when you add a positive number?

$$\text{Eg: } 4 + (+2) = +6$$

- you get a more positive answer
- you are combining positives.

What happens when you add a negative number?

$$\text{Eg: } 4 + (-2) = +2$$

a positive and negative make zero pairs

Does adding a negative always make the answer negative?

$$\text{eg } (+3) + (-1) = +2$$

$$(+3) + (-8) = -5$$

the answer is \oplus or \ominus
depending whether you
have more \oplus or \ominus

Draw a diagram and an addition statement that represents 3×4

3×4 means _____ groups of _____

Diagram:

Addition:

Draw a diagram and write an addition statement to represent each multiplication.

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

b) $(+5) \times (+3) =$

c) $(+4) \times (-3) =$

d) $(+2) \times (-6) =$

What do you notice when a (+) is multiplied by a (-)?

Eg Jake had a big wad of cash, but he paid Rogan \$5 for each hour that Rogan worked in his yard. If Rogan worked 4 hours, what was the overall change in Jake's wad of cash?