

Concept: Adding Integers

Name: _____

COMPUTER COMPONENT

Instructions: In follow the **Content Menu** path:

Whole Numbers and Integers > Adding Integers



Work through all Sub Lessons of the following Lessons **in order**:

- *In This Topic*
- *Elevators ...An introduction to addition*
- *Markers ...An introduction to addition*
- *Going for a Walk ...An introduction to addition.*
- *Number Lines ...An introduction to addition*
- *Writing Positive Integers*
- *Word Problems*



As you work through the computer exercises, you will be prompted to make notes in your notebook/math journal.

OFF COMPUTER EXERCISES

1. Demonstrate your knowledge of adding integers by completing the chart below.

Note: ● = (+1) ○ = (-1)

	Number Sentence	Marker Representation	Result
(a)	$(+2) + (-1) =$	● ● + ○ =	+1
(b)	$(+3) + (-3) =$	● ● ● + ○ ○ ○ =	0
(c)	$(+4) + (-2) =$	● ● ● ● + ○ ○ =	+2
(d)	$(+2) + (-7) =$	● ● + ○ ○ ○ ○ ○ ○ ○ ○	-5
(e)	$(+4) + (-2) =$	● ● ● ● + ○ ○	+2

2. As you know '+3' is the same as writing '3'...the positive sign is not required.

Rewrite each question so that the positive integers are written without the positive sign.

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

$$(b) (-5) + (-1) + (+6) = (-5) + (-1) + (6)$$

$$(c) (+2) + (-1) + (-3) = (2) + (-1) + (-3)$$

$$(d) (+3) + (+4) + (+5) = (3) + (4) + (5)$$

3. Rewrite each question so that the positive integers are written without the positive sign, then find the answer for each question. You may use markers or the number line below to help you. *Be sure to label your number line before you use it.*

$$(a) (+2) + (-2) = (2) + (-2)$$

$$= 0$$

$$(b) (-4) + (-2) + (+5) = (-4) + (-2) + (5)$$

$$= -1$$

$$(c) (-3) + (-1) + (-4) = (-3) + (-1) + (-4)$$

$$= -8$$

$$(d) (-4) + (+4) + (-4) = (-4) + (4) + (-4)$$

$$= -4$$

$$(e) (+2) + (-8) + (-4) = (2) + (-8) + (-4)$$

$$= -10$$

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

$$= 1$$

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

$$= -5$$

4. You made \$25 babysitting, but you owe your friend \$5 and your mom \$12.

(a) Represent each amount of money with an integer.

(b) How much money will you be able to keep after you have repaid your debts?

$$= (25) + (-5) + (-12)$$

$$= 8$$

I will be able to keep \$8 after my debts are paid.

5. You can see a vast range of temperatures throughout a day. For instance, when I woke up this morning it was 13°C . By noon, the temperature rose 8°C . At 3 o'clock, the temperature had risen an additional 9°C . When I went in for dinner, the temperature had dipped 6°C . By my bedtime, the temperature had dipped an additional 7°C ...this should be a comfortable sleeping temperature.

(a) Represent the starting temperature and each temperature change with an integer.

(b) What was the temperature at bedtime?

$$= (13) + (8) + (9) + (-6) + (-7)$$

$$= 17$$

The temperature at bedtime was 17°C .