GUIDED PRACTICE

Lesson 12 – Integers Day 1

Circle the larger integer.

-4 or 7 3 or -10 0 or -2 -13 or -5

Circle the smaller integer.

-8 or 9 -3 or -6 10 or -10 -15 or 2

Add using Algebra tiles.

3 + 4 -2 + (-3) -3 + 5 2 + (-6)

-2 + (-7) 5 + (-3) -6 + 2 2 + (-2)

Are there any patterns you notice when adding integers that you could use as a shortcut? Discuss with a partner and share with class. Write down the shortcut you discover.

Solve using shortcut. Check your shortcut answer using algebra tiles.

-2 + (-5) 3 + (-7)

Subtract using Algebra tiles.

-6 – (-3) -2 - (-3) 3-7 5 – (-2)

4 – 5 -2 - (-6) -7 – 3 3- (-3)

Are there any patterns you notice when subtracting integers that you could use as a shortcut? Discuss with a partner and share with class. Write down the shortcut you discover.

Solve using shortcut. Check your shortcut answer using algebra tiles.

3 – 8 -3 – (-4)

Applications

1. Michal overdrew her bank account by $20. She immediately deposited $75 to avoid being charged a fee. How much money does she have in her account now?

2. The low-temperature laboratory freezer usually stays at -70 C, but since it was not used much today, the temperature was able to drop an additional 15 degrees. What was today’s temperature of the low-temperature freezer?

3. John has been struggling with his weight loss. Over the past year, h has lost 10 pounds, lost 4 more pounds, then gained 9 pounds back. After that he lost 2 pounds, and then gained 6 pounds back. What has John’s total weight loss or gain?