GUIDED PRACTICE

Lesson 13 – Integers Day 2

Multiply using Algebra tiles.

3 x 2 2 x -4 5 x 1

-5 x -3 4 x 4 7 x -2

Are there any patterns you notice when multiplying 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 x 10 3(-4)

Divide using Algebra tiles.

6 ÷ 3 6 ÷ 2 -8 ÷ 2 -8 ÷ -4

5 ÷ 5 5 ÷ 1 15 ÷ -5 15 ÷ -3

Are there any patterns you notice when dividing 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.

-12/3 -10 ÷ -5

Application

The following formulas can be used to convert temperatures into the other scale.

Fraction Formula: Decimal Formula:

Celsius to Fahrenheit (°C x 9/5) + 32 = °F (°C × 1.8) + 32 = °F

Fahrenheit to Celsius (°F - 32°) × 5/9 = °C (°F – 32) ÷ 1.8 = °C

Use the formulas to convert each temperature below:

1. 20°C = \_\_\_\_\_\_\_\_\_\_\_\_

2. -5°C = \_\_\_\_\_\_\_\_\_\_\_\_\_

3. 16°F = \_\_\_\_\_\_\_\_\_\_\_\_

4. 2°F = \_\_\_\_\_\_\_\_\_\_\_\_\_

5. -20°F = \_\_\_\_\_\_\_\_\_\_\_\_