

Math 8

Integer Practice Test

Name: _____

Date: _____

Part 1: Adding and Subtracting Integers (you may use either a number line or tiles from the front desk if you would like)

1. $5 + (-7) = \underline{-2}$

2. $(-12) + 15 = \underline{3}$

3. $(-4) + 3 - 10 = \underline{-11}$

4. $9 - 8 + 3 = \underline{4}$

5. $(-13) + 5 = \underline{-8}$

6. $10 - (-13) = \underline{23}$

7. $(-4) - (-1) = \underline{-3}$

8. $5 - (-7) = \underline{12}$

9. $(-2) - 12 = \underline{-14}$

10. $9 - 7 + 3 = \underline{5}$

11. $(-12) - (-14) + 5 = \underline{7}$

12. $(-4) + (-6) - 14 = \underline{-24}$

13. $12 + (-6) - 1 = \underline{5}$

14. $8 + 2 - 7 = \underline{3}$

15. $(-5) - (-13) + 5 = \underline{13}$

16. $9 - 12 + (-14) = \underline{-17}$

Part 2: Multiply and Dividing (you may use the integer tiles if you would like)

The four rules are:

Positive x positive = (+)

Negative x negative = (+)

Simplify the two above rules: if the sign are the same when multiplying or dividing integers, the answer is positive.

Negative x positive = (-)

Positive x negative = (-)

Simplify the two above rules: if the signs are different when multiplying or dividing integers, the answer is negative.

1. $(3)(-4) = \underline{-12}$

2. $(-5)(-3) = \underline{15}$

3. $(-5)(2) = \underline{-10}$

4. $(8)(4) = \underline{32}$

5. $(-8)(-10) = \underline{80}$

6. $(-56) \div (-8) = \underline{7}$

Part 3: Order of Operations

What is the order you tackle when solving a multi-operation expression? Which ones do you do at the same time?

1. $(5 + (-3)) + (-2)$

$$2 + -2$$
$$= 0$$

2. $5 - 2 + (8)(-4)$

$$5 - 2 + -32$$
$$= -29$$

3. $(9 - 2)(3 + 4)$

$$(7)(7)$$
$$= 49$$

4. $(7 + 5 - 3)(4 - 10)$

$$(9)(-6)$$
$$= -54$$

5. $(8 - 14)(8 - 12)$

$$(-6)(-4)$$
$$= 24$$

6. $(-5 + 1 - 3)(-3 + 2 - 8)$

$$(-7)(-9)$$
$$= 63$$

7. $9 - (-3)(8 - 2)$

$$9 - (-3)(2)$$
$$9 - -6 = 15$$

8. $1 + 3 - (4)(2) + 2$

$$1 + 3 - 8 + 2$$
$$= -2$$

Part 4: Integer Word Problems: Make sure that you show your work! (diagram, equation, answer)

What is the change in temperature when you leave Penticton airport and it is -15°C and you arrive in Mazatlan and it is 38°C ?

$$-15 - -38 - -15$$

$$38 + 15 = 53$$

53°C is the change
in temperature