

Name: _____

Grade 8 Integer Review (Add Subtract Multiply Divide)

Shaded is positive & Unshaded is negative

1. What sum does this set of tiles model? Write the **addition** equation.



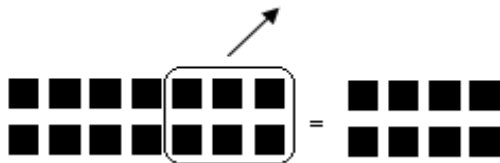
2. Write an **addition** statement that is modelled by 19 positive tiles and 16 negative tiles and state the sum.

3. Use rules

a) $(-8) + (+12)$ _____ b) $(+10) + (-11)$ c) $(+5) + (-8)$ d) $(-12) + (+5)$ e) $(+15) - (-23)$

f) $(-24) - (-3)$ g) $(+5) - (+14)$ h) $(+17) - (+4)$ J) $(-8) - (+4) - (-9)$ k) $(+5) + (+4) + (-7)$

4. Write the subtraction equation modelled by this diagram.



5. Bryan gets on an elevator at the 35th floor. The elevator goes down 17 floors then up 9 floors. At what floor does it finally stop? Write an addition statement.

6. Fill in the blank A) $(-9) + \square = (+4)$ b) $(+3) + \square = (-5)$

7. Represent the sentence with integers, then find the sum (Write addition statement). The temperature fell 12^oC then rose 17^oC. What does the sum represent?

8 A diver starts at sea level, goes down 10 m, rises 3 m, drops 6 m and rises 11 m.

a) Represent the sentence with integers, then find the sum.

b) How much further must the diver rise to reach the surface?

9. Which expression has the greater value?

a) $(+7) - (-2)$

b) $(-7) - (+2)$

10. Find 2 integers that would make each of the sentences true.

a) Positive integer – positive integer = +9

b) Positive integer – negative integer = +9

c) Negative integer – negative integer = +9

11. Use rules to find the product or quotient

a) $(+72) \div (-9)$

b) $(+42) \times (+2)$

c) $(-15) \times (-3)$

d) $(-18) \div (-2)$

e) $(-6) \times (+3)$

f) $(-45) \div (+5)$

g) (

12) Use the distributed property to find the product

a) $(-37) \times (+94)$

b) $(-72) \times (-56)$

13) Write and solve an equation for each word problem.

A) Sam pays back his mom \$7 a day for a debt he owes her. If his total debt is \$63, then how many days will it take Sam to pay back the debt?