Name Key

Math 8 Integers Quiz REVIEW

1. Katie was gone from the school the whole month of September! In the space below please explain to Katie what an integer is.

An integer is a whole number or its opposite.

2. Please list below as many examples of integers in the real world you can think of.

gaining/losing weight, altitude, deposit/withdrawl,

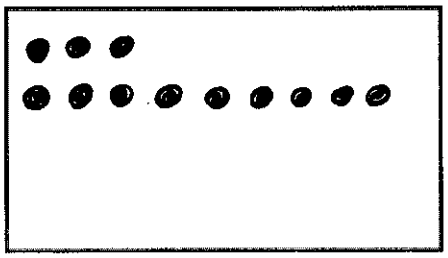
3. Order the following integers from smallest to largest.

a. -99, 0, 5, -3, 11, -2 -99, -3, -2, 0, 5, 11

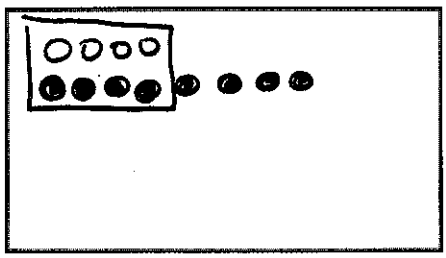
b. -10, 3, -100, -859, 754, -1 -859, -100, -10, -1, 3, 754

4. a) Show the solutions to the following problem using a chip model.

-3 + (-9) = -12



4 + (-8) = -4



7. Solve the following addition and subtraction problems.

a. -4 - 3 = -7

b. 6 - (-11) = 17

c. 2 + (-5) = -3

d. 7 - (12) = -5

e. -21 + (-46) = -67

f. -9 + 9 = 0

g. 8 - 12 = -4

h. -19 + 24 = +5

i. 45 + 2 - 3 = 44 j. -8 + 2 + -3 = -9

k. -9 + -1 + -3 = -13 l. 10 + 2 - 3 - 8 = 1 m. 9 - 10 + 2 - 7 = -6

8. Solve the following multiplication and division problems.

b. 3 x (-7) = -21

c. -4 x 2 = -8

d. 88 ÷ -11 = -8

e. -24 ÷ -8 = 3

f. 3 x 9 = 27

g. -72 ÷ 9 = -8

h. (-9)(8) = -72

i. 2(-3)(4) = -24

j. -5(-2)(7) = 70

For each problem below circle the larger integer.

9. -11 or -6 10. -9 or 12 11. -14 or -20

12. -12 or 7 13. 0 or 9 14. 0 or -4

15. How could you explain to someone how you know which integer is larger?

The value that is farther to the right on a number line is the largest integer.

Please simplify the following expressions using the Order of Operations.

16. $9(-3)+4-12$

$-27+4-12$

$-23+{}^{-}12$

$\boxed{-35}$

17. $(-3+{}^{-}6+2)+3^2-11$

$(-9+2)+3^2-11$

$-7+3^2-11$

$-7+9-11$

$2+{}^{-}11$

$\boxed{-9}$

18. $-12+8+(-2)-45\div-9$

$-12+8+-2-$ -5

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

$-6+(+5)$

$\boxed{-1}$

19. $(-2+(+4))+(4-2(-3))$

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

$2+(4++6)$

$2+10$

$\boxed{12}$

20. $6^2\div4+8(-3)-(-5)$

$36\div4+8(-3)-(-5)$

$9+8(-3)-(-5)$

$9+-24-(-5)$

$-15+(+5)$

$\boxed{-10}$