

Algebra 1 2018

Summer Packet

*This review packet is worth extra credit if completed and handed in at the beginning of your first class of Algebra 1.

*You will be quizzed on the topics contained within this review packet in your Algebra 1 class.

Name: _____

Date: _____

Period: _____

Topic #1 Operations with Signed Numbers

When you take your quiz, you will not be allowed the use of a calculator. If you need assistance, use the vertical number lines on each page and not a calculator to complete these problems. Note, you can also extend the number line if needed.

Adding and Subtracting Integers

$8 + 12 =$

$-2 + 13 =$

$-8 + -15 =$

$-5 + 3 =$

$10 + -2 =$

$-2 + 3 =$

$-3 + 2 =$

$-14 + 3 =$

$10 + 7 =$

$-15 + -2 =$

$-8 + -4 =$

$15 + -4 =$

$13 - 8 =$

$13 - -2 =$

$1 - 5 =$

$9 - -5 =$

$-3 - -2 =$

$-15 - 10 =$

$11 - 12 =$

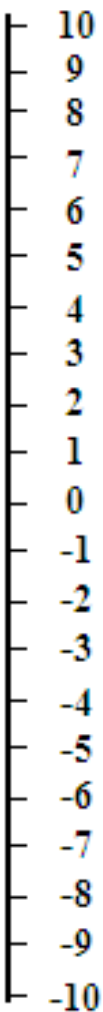
$-12 - 10 =$

$8 - 11 =$

$-3 - 2 =$

$14 - -10 =$

$-8 - 3 =$



Multiplying and Dividing Integers

$12 \times (-6) =$

$2 \times (-2) =$

$(-5) \times 6 =$

$2 \times 10 =$

$0 \times 9 =$

$4 \times (-1) =$

$(-2) \times (-8) =$

$4 \times (-10) =$

$9 \times 3 =$

$(-60) \div (-5) =$

$(-40) \div 8 =$

$(-10) \div 2 =$

$(-4) \div (-4) =$

$(-12) \div 6 =$

$(-35) \div (-7) =$

$16 \div 8 =$

$84 \div (-12) =$

$(-20) \div (-2) =$

Simplifying Fractions

$\frac{12}{28} =$

$\frac{36}{48} =$

$\frac{7}{28} =$

$\frac{4}{6} =$

$\frac{24}{27} =$

$\frac{3}{9} =$

$\frac{10}{15} =$

$\frac{3}{6} =$

Adding and Subtracting Fractions

$$\frac{3}{4} + \frac{1}{16}$$

$$\frac{2}{5} + \frac{1}{10}$$

$$\frac{1}{4} + \frac{1}{2}$$

$$\frac{3}{14} + \frac{1}{3}$$

$$\frac{1}{19} + \frac{1}{2}$$

$$\frac{1}{2} + \frac{3}{16}$$

$$\frac{17}{18} - \frac{4}{9}$$

$$\frac{2}{3} - \frac{1}{17}$$

$$\frac{2}{3} - \frac{3}{8}$$

$$\frac{10}{11} - \frac{1}{2}$$

$$\frac{5}{8} - \frac{4}{9}$$

$$\frac{2}{5} - \frac{1}{3}$$

Multiplying Fractions

$$\frac{15}{7} \times \frac{5}{9}$$

$$5 \times \frac{7}{2}$$

$$\frac{3}{2} \times \frac{11}{3}$$

$$\frac{6}{7} \times \frac{9}{2}$$

$$1 \times \frac{12}{5}$$

$$3 \times \frac{7}{4}$$

Dividing Fractions

$$\frac{5}{2} \div \frac{20}{7}$$

$$5 \div \frac{5}{3}$$

$$\frac{9}{5} \div \frac{9}{2}$$

$$\frac{5}{7} \div 4$$

$$1 \div \frac{19}{10}$$

$$\frac{7}{4} \div \frac{15}{8}$$

Topic #2 One and Two Step Equations

1. $\frac{c}{7} = 6$

2. $50 = 5k$

3. $10 = -5 + a$

4. $-4n = 44$

$$5. -7 = \frac{z}{7}$$

$$6. r + 3 = 6$$

$$7. -10 = -2 + f$$

$$8. 4y = -24$$

$$9. 54 = 6h$$

$$10. -13 = v - 7$$

$$11. 2 + 4x = 10$$

$$12. 2x - 6 = 8$$

$$13. 3x - 2 = 16$$

$$14. -5 + 5x = 10$$

Topic #3 Order of Operations

$$15. (6 + 2)^2 + (6 - 12 \div 3)$$

$$16. (9 + 30 - 3) \div 2 - 6^2$$

$$17. (16 + 6) \times (14 + 5) - 5^2$$

$$18. (8 + 49 - 5^2) \div (4 + 4)$$

$$19. 9 \times (5 \times 8 + 8^2) - 7$$

$$20. (20 + 8) \times (9 + 5) - 6^2$$

$$21. (8 + 56 - 2^2) \div (11 - 7)$$

$$22. (14 + 16 - 6) \div 12 + 5^2$$