

Unit 1:

Remediation Video

Directions: Scan the QR code below (or type the link into your web browser) to watch a tutorial video. Follow along with the video and work out the problems in this packet. Turn in the completed packet to your teacher.

Part 1



goo.gl/K8uAkW

Part 2



goo.gl/JyyLQv

Topic 1 : Order of Operations

Simplify:

$$1) \frac{25 + 5^2 \div 5}{7 - 12 \div 4 + 2}$$

$$2) 1 + (-2 - 5)^2 + -3 \cdot 4$$

$$3) \frac{6(2 + 4) - 1}{2 \cdot 3 + 1}$$

$$4) 10 - 2 \cdot 3^2 + 13$$

Topic 2 : Simplifying Expressions

Simplify:

1) $4x^2 + 2x - 3x^2 + 8x$

2) $5h - 6 - 8 + 7h$

3) $a^2 + 7ab - 10ab + b^2$

4) $5x + 7y - x + 2y + 3x$

Topic 3 : Solving Equations

Solve:

1) $3x + 2(5x - 3) = 7$

2) $8(2w - 2) = 7(3w + 2)$

3) $-4(7x + 5) = -160$

4) $3(5x + 2) = 2(3x - 6)$

Topic 4 : Writing Expressions

ADDITION + • _____ • _____ • _____ • _____ • _____	SUBTRACTION - • _____ • _____ • _____ • _____ • _____
MULTIPLICATION • • _____ • _____ • _____ • _____ • _____	DIVISION / • _____ • _____ • _____ • _____ • _____

(Parentheses Words)
• _____
• _____

Turn Around Words
• _____
• _____

Topic 4 : Writing Expressions

Translate:

1) "Fifteen decreased by the quotient of a number and 3 is 20"

2) "The sum of twice a number and 10 is 36"

3) "Three times the difference of a number and 7 is 18"

4) "Five times the sum of a number and 6 is 48"

Topic 5 : Evaluating Expressions

1) $a^2 - b^2 + 3c$ if $a = -9, b = -6, c = -20$

2) $4p^2 + 7q$ if $p = -3, q = -2$

Topic 6 : Literal Equations

1) $K = \frac{mv^2}{2}$ solve for m

2) $P = 2L + 2W$ solve for W

Topic 7 : Applications

1) The sum of three consecutive odd integers is 171. What are the three integers?

2) The Meredith College tennis team is trying to raise money to buy new tennis courts, so they are selling "Angel Tickets" for \$25.00 each. If the tennis team needs to raise at least \$2,800.00, then what is the least number of "Angel Tickets" they must sell?

Topic 8 : Inequalities

1) $4(x + 3) > -24$

2) $7x - 2(x - 4) \leq -2$

