

Day 1 - #1-9

Name: Day 2 - #10-16

Math 7 Review: Packet #1

Topic #1: Integers and Absolute Value

Directions: Find each sum, difference, product, or quotient.

1. $-18 + 34$

2. $14 - |23|$

3. $-7 + (-12)$

4. $-6 \times |-4|$

5. $\frac{-36}{3}$

6. $-3 \cdot |-25|$

7. After a blizzard the amount of snow on the ground melted by 3 inches one day and then another 8 inches the next day. Write an expression that represents the total change in the amount of snow on the ground over the two days.

8. A scuba diver descended at a rate of 8 feet per second for one minute. What was her total change in elevation over that period of time?

9. A gopher dug a burrow 6 feet below ground. He came up 2 feet to find food, then dug back down another 8 feet. How many feet below ground is he?

Topic #2: Fraction Operations

10. $-\frac{11}{12} + \frac{2}{3}$

11. $3\frac{1}{2} + 4\frac{2}{5}$

12. $6\frac{3}{8} - 2\frac{5}{6}$

13. $-\frac{5}{3} \times 1\frac{1}{4}$

14. $-5\frac{3}{5} \cdot -\frac{1}{7}$

15. $\frac{32}{9} \div 4$

16. Scott filled his gas tank up with $19\frac{5}{9}$ gallons of gas. If he uses $1\frac{5}{6}$ gallons of gas each day, after how many days will he need to refill his tank?

Day 3 - #1-8

Name:

Day 4 - #9-15

Math 7 Review: Packet #2

Topic #1: Expressions

Directions: Evaluate each expression given the variable replacements.

1. $(a^2 + b) + 4ab$ $(a = 4, b = -3)$	2. $5r^2 - 2rs^2$ $(r = -5, s = 6)$	3. $(z + 6)^3 + x$ $(x = -8, z = 6)$
4. $p(pm + p)$ $(p = 2, m = \frac{2}{5})$	5. $4h^2 - j $ $(h = 3 \text{ and } j = -9)$	6. $ -17 - (x + y)^2$ $(x = 14, y = -20)$

Directions: Simplify each expression.

7. $4(-3x + 5)$	8. $3m + 8 - 6m + 1 - m$	9. $9v - (5 - 10v) + 8$
10. $-2(x - 3) + \frac{3}{2}(-4x + 10)$	11. $-10 + \frac{3}{4}(16r - 4) + 9r$	12. $4(-p + 4) - (5p + 3)$

Topic #2: Equations

Directions: Solve each equation. Check all solutions.

13. $x + 8 = -27$	14. $n + \frac{7}{15} = -\frac{8}{15}$	15. $-\frac{2}{3}b = -\frac{17}{12}$
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Day 5 - # 16-22

Day 6 - # 23-30

16. $-5x + 8 = 53$	17. $\frac{w-9}{2} = -3$	18. $-9 = -8 + \frac{r}{21}$
19. $6(6-6a) = 108$	20. $3-7c+3c = -17$	21. $214 = -3 + 7(-1+8s)$
22. $-2(1+2d) = 28 + d$	23. $-(1+4m) = 3(2-m) + 4$	24. $7(k+4) = -1 + 8(k+2)$

Directions: Translate each equation. Do not solve.

25. "a number decreased by fourteen is six"	26. "the quotient of a number and negative two is five"
27. "the difference of twice a number and eight is ten"	28. "12 more than one-fourth of a number is 3"

Directions: For each problem, define a variable and set up an equation, then solve.

29. Vince has a dog washing business. He washed 8 dogs and earned a total of \$119.92. How much does he charge per dog?		30. Mel paid for three-fourths of the cost of a cake and Gretchen paid the rest. If Mel paid \$21, how much did Gretchen pay?	
Equation	Solution	Equation	Solution

**Adding &
Subtracting
Integers
Day 2**

Day 2

Date:

1. $-4 + (-3) =$ _____

2. $10 + (-34) =$ _____

3. $-3 + (-11) =$ _____

4. $-2 + (-3) =$ _____

5. $-8 + (-12) =$ _____

6. $-15 + (-9) =$ _____

7. $-14 - (-2) =$ _____

8. $5 - (-12) =$ _____

9. $6 - (-9) =$ _____

10. $-32 - (-8) =$ _____

11. $-2 - (-15) =$ _____

12. $-17 - (-6) =$ _____

**Multiplying &
Dividing
Integers**

Day 8

Date:

1. $-7 \times -6 =$ _____

2. $-4 \cdot 3 =$ _____

3. $-8 \cdot -10 =$ _____

4. $14 \times -2 =$ _____

5. $-12(-5) =$ _____

6. $-20(8) =$ _____

7. $-24 \div -8 =$ _____

8. $-108 \div 9 =$ _____

9. $64 \div -2 =$ _____

10. $\frac{36}{-9} =$ _____

11. $\frac{-200}{-4} =$ _____

12. $\frac{-10}{5} =$ _____

Adding & Subtracting Fractions (Unlike Bases)

Day 9

Date:

1. $5\frac{3}{4} + \left(-\frac{11}{12}\right)$

2. $-\frac{5}{7} + 11\frac{3}{4}$

3. $15\frac{9}{10} - \left(-2\frac{1}{5}\right)$

4. $-3\frac{4}{5} - 4\frac{1}{6}$

5. Adam biked $6\frac{3}{4}$ miles to work and then $3\frac{2}{5}$ miles to the store. How many miles had he biked that day when he arrived at the store?

Multiplying Fractions

Day 10

Date:

1. $2\frac{5}{6} \cdot -3\frac{1}{3}$

2. $5\frac{2}{5} \times 2\frac{1}{9}$

3. $\frac{15}{16} \left(3\frac{1}{10}\right)$

4. $-\frac{3}{4} \left(-2\frac{2}{9}\right)$

5. Kailyn spent $2\frac{1}{3}$ hours at dance class. She spent $\frac{3}{4}$ of that time practicing ballet. How much time did she spend on ballet?

