Name _____ Date _____ Hour _____

Math 8 – Final Exam Review Packet

	Integers	
	Explain in words how to ….	Examples
Add		– 2 + – 8 = 2 + – 5 =
Subtract		5 – 12 =
Multiply		– 7 • – 2 =
Divide		– 16 ÷ 4 =

	Fractions	
	Explain in words how to ….	Examples
Add		$\frac{3}{8}+\frac{5}{9}=$
Subtract		$1\frac{1}{8}-\frac{3}{5}=$
Multiply		$3\frac{1}{2}\cdot 5\frac{3}{5}=$
Divide		$\frac{7}{9}\div 4\frac{2}{3}=$

	Fractions, Decimals, and Percents	
	Explain in words how to ….	Examples
Change fractions to decimals		$\frac{5}{8} =$
Change decimals to fractions		$0.1625 =$
Change fractions to percents		$\frac{3}{8} =$

	Miscellaneous Topics	
	Explain in words how to ….	Examples
Distributive Property		$5(2x + 3) =$
Combine Like Terms		$3x - 5 + 7x + 12 =$
Percent Proportions		60 is 20% of what number?
Solve Equations		$7x + 3 = 38$
Order of Operations		$\frac{6[5 \cdot 3 - 2^4 \div 4]}{11} =$
Unit Rates		24 yards in 48 hours =

Mixed Review:

Evaluate if a = 12, b = 9, and c = 4.

1.) $a^2 + b - c^2 =$

2.) $(a^2 \div 4b) + c =$

3.) $2c(a + b) =$

4.) $\frac{bc^2+a}{c} =$

5.) $\frac{2(a-b)^2}{5c} =$

6.) $c^2(2b - a) =$

Fractions

7.) $-\frac{15}{16} \cdot \frac{4}{5} =$

8.) $\frac{7}{9} - \frac{2}{5} =$

9.) $-2\frac{2}{3} \cdot -\frac{1}{4} =$

10.) $\frac{5}{12} \cdot \frac{3}{5} =$

11.) $1\frac{1}{4} \cdot \frac{1}{5} =$

12.) $4\frac{1}{5} + 6\frac{3}{4} =$

13.) $-18\frac{5}{12} + 14\frac{3}{4} =$

14.) $4\frac{1}{5} \div 10 =$

15.) $-1\frac{1}{4} \cdot -2\frac{2}{3} =$

Integers

16.) $-8 \bullet 12 \bullet -4 =$

17.) $14 \div -2 =$

18.) $-3 + -5 + 12 =$

19.) $-7 - 1 - 2 =$

20.) $-5 \bullet -3 \bullet -4 =$

21.) $8 + -2 + -7 =$

22.) $-8 + -8 =$

23.) $-5 - 10 =$

24.) $-7 - 10 + 18 =$

Distributive Property/Combining Like Terms

25.) 4(3x – 11) =

26.) – 5(x – 2) =

27.) 2(5 + 3x) =

28.) 2x + 5 – 7x + 12 =

29.) 2x + 5y – 2y =

30.) 14x + 2 – 10x – 8 =

31.) 2x + 3(2x + 3) =

32.) 5(2x + 1) – 5 =

33.) 3(x + 1) =

Solving Equations and Proportions

34.) $\frac{11}{10} = \frac{n}{14}$

35.) $-15 = 2t - 11$

36.) $10 = \frac{n}{2} + 7$

37.) $30 = 5x - 8x$

38.) $\frac{2.5}{35} = \frac{2}{x}$

39.) $4x - 11 = 13$

40.) $16 - \frac{x}{7} = 21$

41.) $3g + 5 = 17$

42.) $\frac{t}{5} = \frac{12}{80}$

Percent Proportion

43.) 6 is what % of 24?

44.) 28 is 35% of what number?

45.) What % of 120 is 24?

Complete the chart.

Fraction	Decimal	Percent
$\frac{1}{9}$	46.)	47.)
48.)	0.05	49.)
50.)	51.)	15%
$\frac{1}{16}$	52.)	53.)