

Review

Writing Percent as a Decimal

Replace the % symbol with its decimal equivalent, 0.01, then multiply

Example: $43\% = 43(0.01) = .43$

Writing a Decimal as a Percent

Multiply by 1 in the form of 100%

Example: $0.27 = 0.27(100\%) = 27\%$ or 27 %

Writing a Percent as a Fraction

Replace % symbol with its fraction equivalent, $(1/100)$, then multiply

Examples: $7\% = 7(1/100) = 7/100$

$1.9\% = 1.9(1/100) = 1.9/100$ Next multiply the numerator and denominator by 10.

$1.9/100 (10/10) = 19/1000$

Writing a Fraction as a Percent

Multiply by 1 in the form of 100%

Example: $1/8 = 1/8 (100\%) = 100\% / 8 = 12 \frac{1}{2}\%$ or 12.5%

Percent Equation

Percent • Base = Amount or $PB=A$

of mean multiplication (•)

is mean equals (=)

what mean the unknown number

Percent Problems (with Proportions)

$\frac{\text{Amount}}{\text{Base}} = \frac{\text{percent}}{100}$

the base usually follows the word “of”

the amount is the part compared to the whole

the percent is identifies by the % symbol (or the word per cent)

Percent Increase = $\frac{\text{amount of increase}}{\text{original amount}}$

Percent Decrease = $\frac{\text{amount of decrease}}{\text{original amount}}$

Sales Tax = tax rate • purchase price

Commission = commission rate • sales

Total Price = purchase price + sales tax

Amount of discount = discount rate • original price

Sales price = original price – amount of discount

<u>PART</u>	<u>WHOLE</u>	<u>FRACTION</u>	<u>DECIMAL</u>	<u>PERCENT</u>
NY	All states			
3 eggs	2 doz.			
4 through 8	All one digit #s			
12 in.	1 ft.			
3 apples	1 apple			
7 cents	1 dime			
1 dime	7 cents			
one side of a square	perimeter of the same square			
π	100			
A group of 30 people	A group of 9 people			
3x	3x			
$\frac{1}{3}$ apple	1 apple			
$\frac{1}{3} z$	z			
z	$\frac{1}{2} z$			
$\frac{1}{5}$ yard	3 yards			
67 cm.	2 m			
40 min.	1 hour			
2 hours	20 min.			
5 %	3			
.7	$\frac{1}{2}$			
30.000	250 %			
female students	# of students in this room			
3 seconds	2.5 hours			
1 of 25 equal parts of 1000				
A numerator of 5 and A denominator of 15				

<u>FRACTION</u>	<u>DECIMAL</u>	<u>PERCENT</u>
1/4		
	.7	
		67%
4/10		
	.13	
		50%
2/3		
	1.9	
		100%
1		
	.0083	
		203%
2 1/4		
	000.0000006	
		45 1/2 %
4/2		
	.33	
		0%
7/3		