

**Semester 2 Final Exam  
Skills List & Standards**

<b>DECIMAL CONCEPTS (20 Problems)</b>		
<b>Skill</b>	<b>Problem(s)</b>	<b>CA Standard</b>
<b>Place Value</b>		
• Whole number place value from ones to thousandths.	1	Gr.4: NS1.2
• Decimal place value from tenths to ten-thousandths.	2,3,4	Gr.4: NS1.2
• Comparing whole numbers (requires place value).	5	Gr.4: NS1.2
• Comparing decimals (requires place value).	6	Gr.6: NS1.1
• Ordering whole numbers (requires place value).	7	Gr.4: NS1.2
• Ordering decimals (requires place value).	8,9	Gr.6: NS1.1
<b>Fractions ↔ Decimals</b>		
• Converting base-10 fractions to decimals.	10,11,12	Gr.7: NS1.3
• Converting decimals to base-10 fractions.	13,14	Gr.7 NS1.5
• Converting (non-base-10) fractions to decimals.	15,16	Gr.7: NS1.3
<b>Additional Decimal Concepts</b>		
• Plotting Decimals	17,18	Gr.6: NS1.1
• Rounding Decimals	19,20	Gr.5: NS1.1

<b>DECIMAL OPERATIONS (15 Problems)</b>		
<b>Skill</b>	<b>Problem(s)</b>	<b>CA Standard</b>
Adding Decimals	21,22,23	Gr.5: NS2.1
Subtracting Decimals	24,25,26	Gr.5: NS2.1
Multiplying Decimals	27,28,29	Gr.5: NS2.1
Dividing Decimals by Whole Numbers	30,31	Gr.5: NS2.1
Dividing Whole Numbers and Decimals by Decimals	32,33	Gr.5: NS2.1
Multiplying and Dividing by Powers of 10	34,35	Gr.5: NS2.1

<b>PERCENTS (30 Problems)</b>		
<b>Skill</b>	<b>Problem(s)</b>	<b>CA Standard</b>
Write ratios in different representations.	36,37,38	Gr.6: NS1.2
Solve proportions of one variable.	39,40,41	Gr.6: NS1.3
Find missing sides of similar figures.	42,43	Gr.6: NS1.3; Gr.7: MG1.2
Convert percents to fractions.	44,45	Gr.7: NS1.3

Convert percents to decimals.	46,47	Gr.7: NS1.3
Convert decimals to percents.	48,49	Gr.7: NS1.3
Convert fractions to percents.	50,51	Gr.7: NS1.3
Use diagrams to represent percent problems solved using proportions.	52,53	Gr.6: NS1.3; Gr.7: MR2.5
Use percent equations to represent percent problems.	54,55	Gr.7: NS1.3
Solve percent problems to find the part given a percent and a whole.	56,57	Gr.6: NS1.4; Gr.7: NS1.3
Solve percent problems to find the percent given a part and a whole.	58,59	Gr.7: NS1.3
Solve percent problems to find the whole given a percent and a part.	60,61	Gr.7: NS1.3
Find the percent of increase (percent of change).	62	Gr.7: NS1.6
Find the percent of decrease (percent of change).	63	Gr.7: NS1.6
Find the discount and sale price due to a percent of discount.	64,65	Gr.6: NS1.4; Gr.7: NS1.7

Gr. = Grade (Level)

NS = Number Sense

MG = Measurement and Geometry

MR = Mathematical Reasoning