

MATH CCSS TEST REVIEW



a 10+ day common core aligned test prep
this resource is 100% aligned to CCSS

comprehensive, ready-to-go test review unit

MATH END-OF-THE-YEAR REVIEW INSTRUCTIONS AND IMPLEMENTATION

TABLE OF CONTENTS

The following items have been included in the Math End-of-the-Year Review pack.

TOPIC	STANDARDS	ACTIVITY
Rational Number Operations	7.NS.1, 7.NS.2, 7.NS.3	Task Cards
Proportionality and Scale Drawings	7.G.1	He Said, She Said
Rates and Percents	7.RP.1, 7.RP.3	Scavenger Hunt
Proportional Relationships	7.RP.2	Four Corners
Equations and Inequalities	7.EE.1, 7.EE.2, 7.EE.3, 7.EE.4	Puzzle
Angle Relationships	7.G.2, 7.G.5	Stations
2D Geometry	7.G.4, 7.G.6	Scavenger Hunt
Volume and Surface Area	7.G.3, 7.G.6	Cut and Paste
Data and Statistics	7.SP.1, 7.SP.2, 7.SP.3, 7.SP.4	Find It and Fix It
Probability	7.SP.5, 7.SP.6, 7.SP.7, 7.SP.8	Spin to 10

Additionally, the same content has been formatted for easier printing by placing all of the like materials in one file. For example, all of the quizzes together, all of the activities together, all of the warm-ups together, etc.

Activities Only.pdf	<input checked="" type="checkbox"/>	Ye
Cheat Sheets Only.pdf	<input checked="" type="checkbox"/>	Ye
Quick Checks Only.pdf	<input checked="" type="checkbox"/>	Ye
Teacher Guides Only.pdf	<input checked="" type="checkbox"/>	Ye
Warm-Ups Only.pdf	<input checked="" type="checkbox"/>	Ye

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RATES AND PERCENTS TEACHER GUIDE

STANDARDS

7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.

7.RP.3 Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

VOCABULARY & KEYWORDS

percent: quantity out of 100

percent decrease: the measure of percent change in which something loses value

percent increase: the measure of percent change in which something increases in value

rate: a comparison between two quantities with different units of measure

sales tax: tax on goods and services at the time of purchase

simple interest: interest calculated only on the principal, $I = prt$

unit rate: a comparison of two measurements with a denominator of 1

COMMON MISTAKES & MISCONCEPTIONS

- Students may struggle to find the original value and to use the formula for percent change appropriately.
- Students may incorrectly set up a percent proportion or percent equation.
- Students may struggle to read a problem and to determine which information is the part and/whole.

teacher guides
includes:



standards



vocabulary



misconceptions

RATES AND PERCENTS WARM-UP

Name _____
Date _____ Pd _____

1. A group of 400 town residents is asked to attend a town hall meeting. Of the 400 residents asked to attend, 36 were able to attend. What percentage of the town residents were able to attend?

2. Jason worked the following hours in the month of June. What was the percent increase from week 1 to week 3?

WEEK	HOURS
1	18
2	26
3	24
4	33

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2 warm-up
questions
per topic



RATES AND PERCENTS WARM-UP

Name _____
Date _____ Pd _____

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WEEK	HOURS
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MATH CCSS TEST REVIEW



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cheat sheets cover
key concepts

RATES AND PERCENTS
CHEAT SHEET - A

Name _____
Date _____ Pd _____

RATE: a ratio with **TWO DIFFERENT UNITS**

$\frac{\$5.25}{6 \text{ LB}}$ $\frac{250 \text{ MI}}{4 \text{ HRS}}$ $\frac{49 \text{ FT}}{5 \text{ SEC}}$

UNIT RATE: a ratio with a quantity of **ONE**

$\frac{\text{PRICE}}{1 \text{ LB}}$ $\frac{\text{MILES}}{1 \text{ HR}}$ $\frac{\text{FEET}}{1 \text{ SEC}}$

FRACTIONAL UNIT RATE

- Will result in a complex fraction
- Follow the steps for dividing fractions

$\frac{\text{MILES}}{\text{HR}} = \frac{\frac{1}{3}}{\frac{1}{4}} = \frac{1}{3} \cdot \frac{4}{1} = \frac{4}{3}$

$\frac{4}{3}$ MILES IN 1 HOUR

PERCENT VOCABULARY

MARKUP	DISCOUNT	OTHER
tax tip mark up gratuity increase	sale price amount off decrease mark down discount whole sale	commission interest

RATES

INTEREST & ERROR

SIMPLE INTEREST: $I = p \cdot r \cdot t$

I = interest
p = principal
r = annual interest rate (as a decimal)
t = time (in years)

- Be sure to change the rate to a decimal and convert any number of months to years.

PERCENT ERROR

$\frac{|A-X|}{|X|} = \frac{\%}{100}$ A = approx
X = exact

RATES AND PERCENTS
CHEAT SHEET - B

Name _____
Date _____ Pd _____

RATE: a ratio with _____

$\frac{\$5.25}{6 \text{ LB}}$ $\frac{250 \text{ MI}}{4 \text{ HRS}}$ $\frac{49 \text{ FT}}{5 \text{ SEC}}$

UNIT RATE: a ratio with a quantity of _____

$\frac{\text{PRICE}}{1 \text{ LB}}$ $\frac{\text{MILES}}{1 \text{ HR}}$ $\frac{\text{FEET}}{1 \text{ SEC}}$

FRACTIONAL UNIT RATE

- Will result in a complex fraction
- Follow the steps for dividing fractions

$\frac{\text{MILES}}{\text{HR}} = \frac{\frac{1}{3}}{\frac{1}{4}} = \frac{4}{3}$

RATES

INTEREST & ERROR

SIMPLE INTEREST: $I = p \cdot r \cdot t$

I = _____
p = _____
r = _____
t = _____

- Be sure to change the rate to a _____ and convert any number of months to _____.

PERCENT ERROR

$\frac{|A-X|}{|X|} = \frac{\%}{100}$ A = _____
X = _____

PERCENT ERROR

RATES AND PERCENTS
CHEAT SHEET - C

Name _____
Date _____ Pd _____

PERCENT VOCABULARY

RATES

INTEREST & ERROR

PERCENT

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3 scaffolded
versions



MATH CCSS TEST REVIEW



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assessments with 8-10 questions

RATES AND PERCENTS
QUICK CHECK

Name _____
Date _____ Pd _____

1. Todd plans to swim 18 laps in the pool. Each lap is 50 yards. So far Todd has swam 738 yards. What percentage of the total has Todd completed?

A. 18%
B. 82%
C. 62%
D. 77%

2. Jameson is seeking a loan with a simple interest rate of 3% per year. If he wants to borrow \$8,000, then how much will he be charged in interest after 4 years?

F. \$1,280.00
G. \$960.00
H. \$240.00
J. \$9,600.00

3. A hot air balloon travels 18 miles in 3 hours. At this rate how many miles will the hot air balloon travel in $\frac{3}{4}$ hour?

A. 4.5 B. 6 C. 11.5 D. 13.5

4. The price of a tablet was increased from \$180 to \$207. By what percentage was the price of the table increased?

F. 33% H. 27%
G. 8% J. 15%

5. Margie has a \$50.00 budget to purchase a \$45.00 pair of boots. If there is an 8% sales tax rate, how much under budget will Margie be?

A. \$8.60
B. \$5.00
C. \$1.40
D. \$4.20

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- ✓ multiple choice
- ✓ griddable
- ✓ Google Forms™ version included

1.	A	B	C	D											
2.	F	G	H	J											
3.	A	B	C	D											
4.	F	G	H	J											
5.	A	B	C	D											
6.	F	G	H	J											
7.	A	B	C	D											
8.	F	G	H	J											
9.	A	B	C	D											
10.	Use the grid below.														
	0	1	2	3	4	5	6	7	8	9	.	/	-	+	=
	0	1	2	3	4	5	6	7	8	9	.	/	-	+	=

RATES AND PERCENTS
ANSWER KEYS

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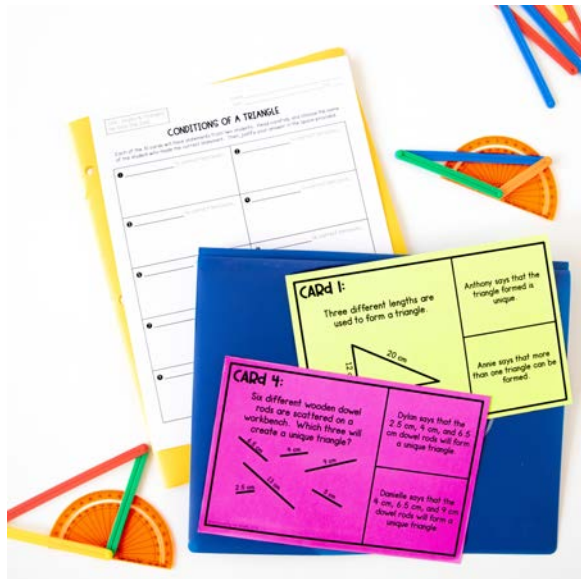
answer keys included

MATH CCSS TEST REVIEW

7th
GRADE

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10 easy-to-prepare activities



he said, she said
error analysis activity



scavenger hunt
great for partner work



task cards
variety of uses



puzzle activity
make math hands-on

scavenger hunt - task cards - he said, she said - find it, fix it - stations
spin to ten - four corners - puzzle activity - cut and paste

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