



Math Virtual Learning

6th Grade Math

MAP Mystery- Number System Review

May 20, 2020



6th Grade Math

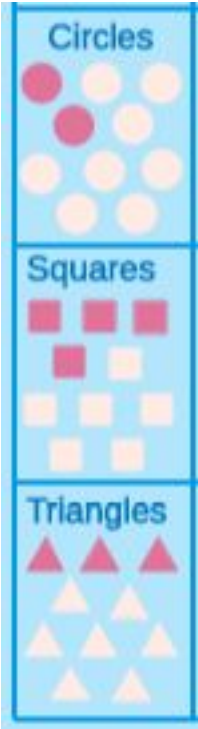
Lesson: May 19, 2020

Objective/Learning Target:

Students will review sixth grade math standards for number system.

Warm Up Activity

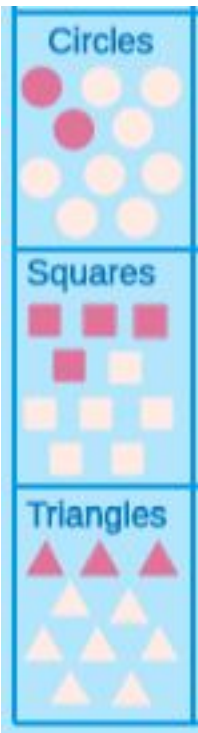
Convert each ratio into a fraction, decimal, and percent.



	Fraction	Decimal	Percent
Circles			
Squares			
Triangles			

Warm Up Answers

Convert each ratio into a fraction, decimal, and percent.



	Fraction	Decimal	Percent
Circles	$2/10$ or $1/5$	0.2	20%
Squares	$4/10$ or $2/5$	0.4	40%
Triangles	$3/10$	0.3	30%

Lesson Videos

[Converting Fractions, Decimals and Percents](#)

[Multiplying Decimals](#)

[Dividing Decimals](#)

[Dividing Fractions](#)

[LCM and GCF](#)

MAP Mystery Day 1

As you go throughout this review this week, use this link to check your type in and check your answers:

[MAP Mystery Sites](#)

Please click on Day 1 to type in your answers for today.

Practice # 1

TIME OF THE CRIME?

Change each number to a percent. Then put these numbers on the number line.

$\frac{1}{8}$

0.05

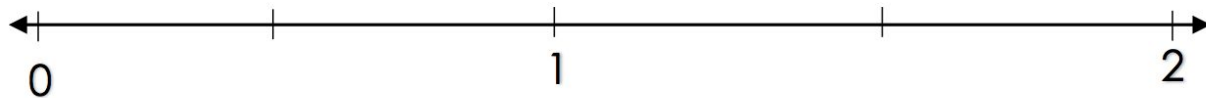
1.36

85%

0.7

$\frac{5}{4}$

$\frac{9}{10}$



The greatest value (in decimal form) is the time the crime took place.

What time did the crime take place? _____

Practice # 2

DAY THE CRIME TOOK PLACE?

Solve each. Then order the days by ordering the solutions from least to greatest.

Monday: 0.5×9	Tuesday: 2.3×0.7
Wednesday: $4.5 \div 0.5$	Thursday: $0.06 \div 0.5$
Friday: The detectives really like gum. It costs \$2.50 for a pound (lb) of gum and Chief Kuntz buys 1.3 pounds. How much money does she spend?	

The day of the crime is less than 1. On which day did the crime take place? _____

Practice # 3

WHERE THE CRIME TOOK PLACE?

Solve each. Then sort the locations by ordering the quotients from least to greatest.

Kauffman Stadium: $\frac{1}{4} \div \frac{3}{8}$	Bridger Middle School: $3 \div \frac{2}{5}$
White House: $\frac{1}{8} \div \frac{1}{3}$	Mexico: $\frac{3}{10} \div \frac{3}{5}$
Disney World: If 8 gallons of coffee are poured into $\frac{2}{3}$ gallon containers for the detectives on the case, how many full containers can be filled?	

The place of the crime is equivalent to $\frac{24}{36}$. Where did the crime take place? _____

Practice # 4

WHAT WAS STOLEN?

The equivalent expressions are the letters of the stolen object:

J: $8^2 \div 2^2$ and 4

H: $9/50$ and 0.18 and 18%

T: 0.36 and 36%

M: 0.061 and 61%

R: 16.2 and 1,620%

S: $1.5^2 + |4|$ and 7

O: $125/100$ and 1.25 and 125%

Y: $|-16| - 1.2^2$ and 14.56

F: 4.5 and 45%

S: $7^3 \times 3^2 - 5^3$ and 111

P: 0.153 and 15.3%

L: 0.05 and $5/10$ and 5%

Stolen Object: _____

Practice # 5

CHARACTERISTICS OF THE CRIME

The security guards checked the security cameras every 12 minutes and, while hiding in the trophy room, the culprit crossed the view of the camera every 9 minutes. After how many minutes would the security guards see the culprit on camera? _____

The culprit used 2 ropes to climb into the window. One rope was 72 feet long and one was 64 feet long. He cut them in equal pieces to tie together for better rope strength. What is the greatest possible length he could cut each rope into so that no rope is left unused? _____

Practice # 6

POSSIBLE MOTIVE

Here are the suspects and their bank accounts:

Mrs. Hill

Mr. Williams

Mr. Painter

Mr. Doyle

-\$8.25

-\$95.50

-\$95.00

\$124.30

Order the suspects accounts from least to greatest: _____

Who is furthest from \$0.00? _____

Who has motive to steal the object based on their bank accounts? _____

Summary/Reflection

How comfortable are you with number systems review?

Which one of the conversions are you most confident in (fractions to decimals, decimals to percents, or percents to fractions)?

Compare and contrast the process of finding LCM and GCF.

Additional Practice:

Click on the link below to get additional practice and to check your understanding!

Practice:

[Khan Academy: Percents to Fractions](#)

[Khan Academy: Fractions to Percents](#)

[Khan Academy: Percent to Decimal](#)

[Khan Academy: Least Common Multiple](#)

[Khan Academy: Greatest Common Factor](#)