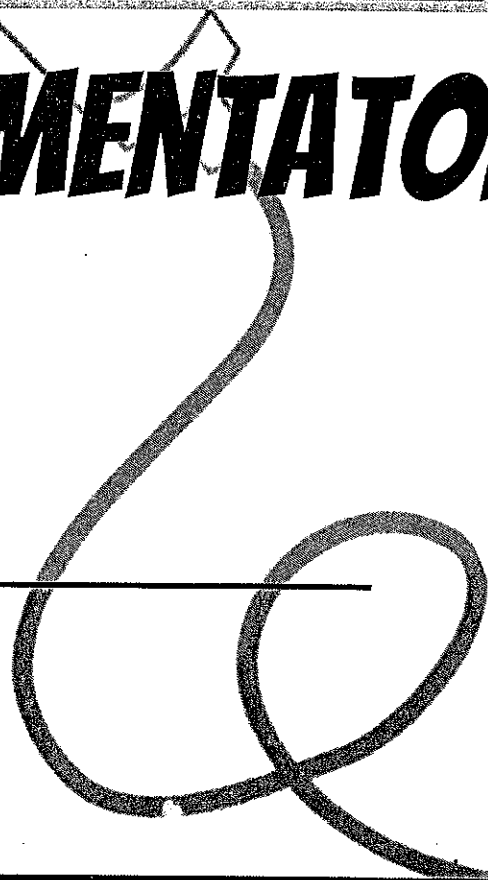


**NCAA**

# **MARCH MADNESS®**

## **SPORTS COMMENTATOR**

**NAME:** Carmy



# 1A NOTES & PRACTICE

## WHAT IS A PERCENT? "OUT OF 100"

- A percent is a ratio that compares a number to 100.
- The symbol % is used to show percent.
- Percent can be used to easily compare values.
- 17% is equivalent to...

$$\frac{17}{100} \quad 17:100 \quad 17 \text{ to } 100$$

## WHICH PLAYER HAS THE BEST FREE-THROW PERCENTAGE?

LeBron James

$$\frac{18}{25}$$

$$\frac{18}{25} = \frac{72}{100} \quad (\times 4)$$

Kyrie Irving

$$\frac{16}{20}$$

$$\frac{16}{20} = \frac{80}{100} \quad (\times 5)$$

Stephen Curry

$$\frac{40}{50}$$

$$\frac{40}{50} = \frac{80}{100} \quad (\times 2)$$

## PART TO WHOLE RELATIONSHIPS

$$\frac{\%}{100} = \frac{\text{part}}{\text{whole}}$$

**IXL PRACTICE : 5TH GRADE R.1**  
**(GOAL : 80 SMART SCORE)**

SHOW YOUR SCORE TO A FRIEND  
 THEN, HAVE THEM SIGN HERE!

*[Handwritten signature]*

# 1B NOTES

## FINDING THE PART

- 1) Fred VanVleet is a point guard for the Toronto Raptors. His 3-point field goal percentage is 36% for this year. If he took a total of 25 3-point field goal shots in last week's games, how many did he make based on his percentage?

$$\frac{36\%}{100} = \frac{9}{25}$$

*(Handwritten annotations: a bracket above 36% with "÷ 4", a bracket below 100 with "÷ 4", and a bracket below 25 with "÷ 4")*

- 2) Adam Vinatieri is the Placekicker for the Indianapolis Colts. This year he has taken 5 extra point attempts. The percentage for extra points that he made is 80%. How many extra point attempts has he made?

$$\frac{80\%}{100} = \frac{4}{5}$$

*(Handwritten annotations: a bracket above 80% with "÷ 20", a bracket below 100 with "÷ 20", and a bracket below 5 with "÷ 20")*

- 3) In 2014, the participation of women in the Olympic Winter Games was at about 40%. If there were 3000 athletes that participated in 2014, how many of them were women?

$$\frac{40\%}{100\%} = \frac{1,200}{3000}$$

*(Handwritten annotations: a bracket above 40% with "\* 30", a bracket below 100% with "\* 30", and a bracket below 3000 with "\* 30")*

# 1C NOTES

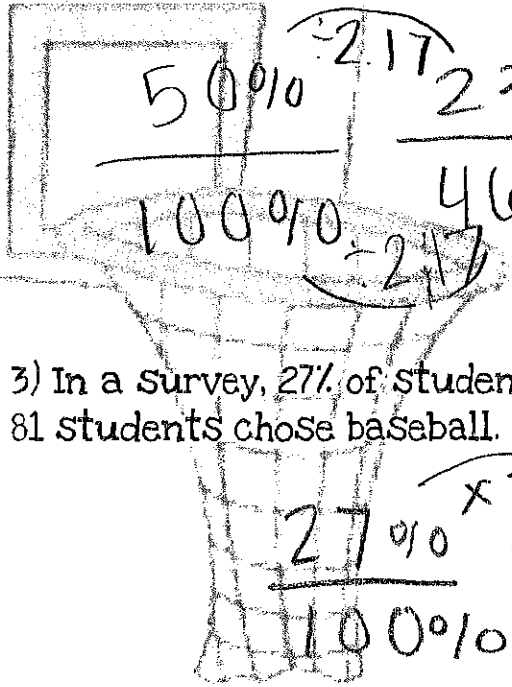
## FINDING THE WHOLE

1) 60% of the offensive players on the ISU Redbirds football team are seniors. If 12 offensive players are seniors, how many offensive players are on the team?

$$\begin{array}{r} 60\% \quad \div 5 \\ 12 \end{array}$$

$$\begin{array}{r} 100\% \\ \hline 20 \\ \div 5 \end{array}$$

2) While Peyton is playing basketball she makes a basket 50% of the time. If she made 23 baskets, how many has she attempted?


$$\begin{array}{r} 50\% \quad \div 2 \\ 23 \end{array}$$
$$\begin{array}{r} 100\% \\ \hline 46 \\ \div 2 \end{array}$$

3) In a survey, 27% of students chose baseball as their favorite sport. In all, 81 students chose baseball. How many students were in the survey?

$$\begin{array}{r} 27\% \quad \times 3 \\ 81 \end{array}$$
$$\begin{array}{r} 100\% \quad \times 3 \\ 300 \end{array}$$

4) Nicole spent 20 minutes running on the treadmill during her workout. This was 40% of her workout. How long was her total workout time?

$$\begin{array}{r} 40 \quad \div 2 \\ 20 \end{array}$$
$$\begin{array}{r} 100 \quad \div 2 \\ 50 \end{array}$$

# 1D NOTES

## FINDING THE PERCENT

1) At the Illinois State University Basketball game, the concession stand has 50 candy bars, if 28 of them are Snickers, what percentage of candy bars are Snickers?

$$\frac{56}{100} = \frac{28}{50}$$

2) Anna has made 24 penalty kicks out of 25 this soccer season. What percent of penalty kicks did Anna make?

$$\frac{96}{100} = \frac{24}{25}$$

3) In a survey, 20% of people preferred the Cardinals to the Cubs. 750 people were surveyed. How many people preferred the Cardinals?

$$\frac{20}{100} \times 750 = 150$$

4) A football team won 70% of their total games this season. If they won 50 games, how many games did they play in all this season?

$$\frac{70}{100} = \frac{50}{x}$$

Classmate Signature: \_\_\_\_\_

**ARE YOU READY  
FOR YOUR QUIZ?**

**IF NOT, HEAD BACK TO YOUR  
PRACTICE OR CHOOSE TO FIND  
AN IXL TO SUPPORT YOUR LEARNING!**

# 2E NOTES

Word problems with percentages utilizes specific language to help lead you toward how to solve the problem correctly! **LEARNING THE LINGO!**

OF	OUT OF	IS
<p>17% of 200</p> <p>OF = WHOLE</p> $\frac{17}{100} = \frac{X}{200}$ <p>(<math>\times 2</math>)</p>	<p>15 out of 20 is what %?</p> <p>OUT OF = Part, Whole</p> $\frac{15}{20} = \frac{X}{100}$ <p>(<math>\times 5</math>)</p>	<p>18 is 90% of what number?</p> <p>IS = Part to Part or Whole to Whole</p> $\frac{90}{100} = \frac{18}{X}$

<p>15% of 600</p> $\frac{15\% \times 6}{100} = \frac{90}{600}$ <p>(<math>\times 6</math>)</p>	<p>40% of 60</p> $\times 2.5 \left( \frac{40\%}{100\%} = \frac{24}{60} \right) \times 2.5$
<p>30 out of 60 is what %?</p> $\times 2 \left( \frac{50}{100\%} = \frac{30}{60} \right) \times 2$	<p>25 is 75% of what number?</p> $\frac{75 \div 3}{100} = \frac{25}{X}$ <p>(<math>\div 3</math>)</p>

# 2E PRACTICE

What percentage of 60 is 15?

$$\left( \frac{25\%}{100} = \frac{15}{60} \right) \times 4$$

Find what percentage of 90 is 50

$$\left( \frac{55.6}{100} = \frac{50}{90} \right) \times 8$$

35 is what percentage of 70?

$$\left( \frac{50}{100} = \frac{35}{70} \right) \times 2$$

What is 70% of 90?

$$\frac{70}{100} = \frac{63.6}{90}$$

Find 30% of the number 50

$$\frac{30}{100} = \frac{15}{50}$$

Find 30% of the number 80

$$\frac{30}{100} = \frac{24}{80}$$

What is 30% of 80?

$$\frac{30}{100} = \frac{24}{80}$$

40 is what percentage of 100?

$$\frac{40}{100} = \frac{40}{100}$$

What is 85% of 13?

$$\frac{85}{100} = \frac{11.0}{13}$$

What is 61% of 20?

$$\frac{61}{100} = \frac{12.2}{20}$$

Find what percentage of 90 is 40.

$$\frac{44}{100} = \frac{40}{90}$$

45 is what percentage of 90?

$$\frac{49.5}{100} = \frac{45}{90}$$

**CHECK YOUR ANSWERS WITH A KEY!**



## 2E CHALLENGE

Record your own commercial for ESPN marketing a new program called "Percent Calc!" This program solves percentage proportions for announcers quicker than ever! Think of the time you'll save not having to calculate each player's percentages by hand!

Include the **product name**, **what the product does**, and **how it calculates the problems**. Within your explanation, **include mathematical terms used in this stage** of the grid to **explain how the program determines how to solve the problems**. Commercial should not be more than 30 seconds

Commercial Script Drafting Space :

Hello sport commentators. I am pleased to announce the Percent Calc. Our design will find the percentage of your players accuracy. We use proportions to calculate the player's percentage. Lucky for you you'll save more time than ever in the human history of sports announcers.

### Recording Directions :

1. Click on the Flip Grid Link and login using your School Information.
2. Record your commercial
3. Save with your Name & Commercial Title (that you design!)

### LASTLY:

Review ONE of your Peers on their commercial. How did they do describing their work?

Leave an encouraging message with 2 positives & 1 suggestion.

Once ALL Submitted,  
show your Teacher for  
a signature!

## 2F PRE-TEST

**SPACE TO WRITE DOWN YOUR WORK!**

$$\begin{array}{r} 23\% \times 2 = 46 \\ \hline \end{array}$$

$$\begin{array}{r} 100\% \quad 200 \\ \hline \end{array}$$

$$\begin{array}{r} \quad \quad \quad \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15\% \quad \quad \quad \div 1.67 \\ \hline \end{array}$$

$\times 1.67$

$$\begin{array}{r} 100\% \quad \quad \quad 60 \\ \hline \end{array}$$

$\div 1.67$

# IXL

**YOU CHOOSE!**

Choose **TWO or more** levels on IXL below to master before moving forward! \*Circle the Level you Mastered\*

- ▀ Percents of numbers and money amounts (6-S.4)
- ▀ Percents of numbers: word problems (6-S.5)
- ▀ Find the total given a part and a percent (6-S.9)
- ▀ Which is the better coupon? (6-V.1)
- ▀ Sale prices (6-V.5)
- ▀ Sale prices: find the original price (6-V.6)
- ▀ Percents - calculate tax, tip, mark-up, and more (6-V.7)

# **2G : QUIZ REFLECTION**

**REVIEW YOUR PAST ASSESSMENTS AND USE THIS SPACE TO IDENTIFY AREAS YOU WANT TO IMPROVE BEFORE YOUR FINAL TEST!**

**WHAT DO I DO WELL?**

**WHERE CAN I IMPROVE?**

**ARE YOU READY  
FOR YOUR TEST?**

**IF NOT, HEAD BACK TO YOUR  
PRACTICE OR CHOOSE TO FIND  
AN IXL TO SUPPORT YOUR LEARNING!**