

14. **MP Persevere with Problems** Daphne wants to buy a coat that costs \$80. The store that sells the coat has multiple locations. The sales tax in each county is shown in the table. How much more would the coat cost in Delaware county than Fairfield county?

County	Tax Rate (%)
Delaware	7.25
Fairfield	6.5
Franklin	6.75

15. Dante took three tests on Friday. He got a 92% on his English test, an 88% on his math test and a 90% on his science test. Write each percent as a decimal in order from least to greatest.



H.O.T. Problems Higher Order Thinking

16. **MP Reason Inductively** Write a decimal between 0.5 and 0.75. Then write it as a fraction in simplest form and as a percent.

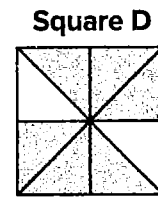
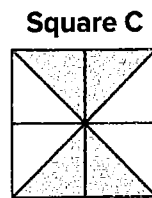
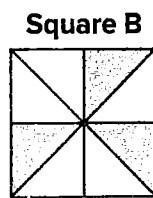
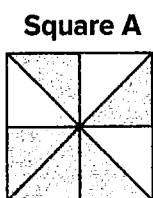
17. **MP Persevere with Problems** How would you write $43\frac{3}{4}\%$ as a decimal?

18. **MP Model with Mathematics** Write a percent between 25% and 50%. Then write it as a decimal and as a fraction in simplest form.

19. **MP Reason Inductively** Explain why percents are rational numbers.

20. **MP Model with Mathematics** Write a problem about a real-world situation in which you would either write a percent as a decimal or write a decimal as a percent.

21. **MP Reason Abstractly** Each square below is divided into sections of equal size. In which square is 25% of the square *not* shaded? _____




Independent Practice

Go online for Step-by-Step Solutions

eHelp



Write each percent as a decimal. (Examples 1–3)

1.  35% = _____

2. 2% = _____

3. 31% = _____

4. 95% = _____

Show your work.

Write each decimal as a percent. (Examples 4 and 5)

5. 0.22 = _____


6. 0.79 = _____

7. 0.1 = _____

8. 0.16 = _____

9. **Financial Literacy** A bank offers an interest rate of 4% on a savings account. Write 4% as a decimal. (Examples 1–3)

10. When making a peanut butter and jelly sandwich, 96% of people put the peanut butter on first. Write 96% as a decimal. (Examples 1–3)

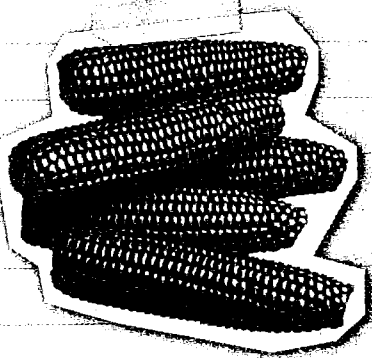
11.  In a recent year, 0.12 of Americans downloaded a podcast from the Internet. What percent is equivalent to 0.12?

(Example 6) _____

12. In a recent year, the number of homes with digital cameras grew 0.44 from the previous year. Write 0.44 as a percent. (Example 6)

13. **Financial Literacy** The formula $I = prt$ gives the simple interest I earned on an account where an amount p is deposited at an interest rate r for a certain number of years t . Use the table to order the accounts from least to greatest interest earned after 5 years.

Accounts at First Savings Bank		
Account	p (\$)	r (%)
A	350	4
B	500	3.5
C	280	4.25



Example

Tutor

6. The United States produces more corn than any other country, producing 0.4 of the total corn crops. Write 0.4 as a percent.

$$\begin{aligned} 0.4 &= 0.40 && \text{Annex a zero.} \\ &= 0.40\% && \text{Multiply by 100 and add a \% sign.} \\ &= 40\% && \text{Simplify.} \end{aligned}$$

Check $0.4 = \frac{40}{100}$ Write the decimal as a fraction with a denominator of 100.
 $= 40\% \checkmark$ Write the fraction as a percent.

Guided Practice

Check

Write each percent as a decimal. (Examples 1–3)

1. $27\% =$ _____

2. $15\% =$ _____

3. $4\% =$ _____

Show your work →

Write each decimal as a percent. (Examples 4 and 5)

4. $0.3 =$ _____

5. $0.82 =$ _____

6. $0.51 =$ _____

7. **STEM** About 0.7 of the human body is water. What percent is equivalent to 0.7? (Example 6) _____

8. **e** **Building on the Essential Question** What is the relationship between percents and decimals?

Rate Yourself!

How well do you understand percents and decimals? Circle the image that applies.



Clear



Somewhat Clear



Not So Clear

For more help, go online to access a Personal Tutor.

Tutor



FOLDABLES Time to update your Foldable!

Write Decimals as Percents

Key Concept

Words To write a decimal as a percent, multiply by 100 and add a % sign. This is the same as moving the decimal point two places to the right.

Example $0.36 = 0.36\%$
 $= 36\%$

Another way to write a decimal as a percent is to write the decimal as a fraction with a denominator of 100. Then write the fraction as a percent.

Examples

Tutor

4. Write 0.38 as a percent.

Method 1 Write the decimal as a percent.

$0.38 = \frac{38}{100}$ Write 38 hundredths as a fraction.
 $= 38\%$ Write the fraction as a percent.

Method 2 Move the decimal point.

$0.38 = 0.38$ Move the decimal point two places to the right.
 $= 38\%$ Add the percent sign.

5. Write 0.2 as a percent.

$0.2 = \frac{2}{10}$ Write 2 tenths as a fraction.

$$\begin{array}{c} \nearrow \times 10 \\ \frac{2}{10} = \frac{20}{100} \\ \nwarrow \times 10 \end{array}$$

Write the equivalent fraction with a denominator of 100.

$= 20\%$ Write the fraction as a percent.

Got it? Do these problems to find out.

Write each decimal as a percent.

d. 0.47

e. 0.73

f. 0.5

STOP and Reflect

Why does it help to write a decimal as a fraction with a denominator of 100 when writing decimals as percents?

Show your work.

d. _____

e. _____

f. _____

Key Concept

Write Percents as Decimals

Work Zone

Words To write a percent as a decimal, divide by 100 and remove the % sign. This is the same as moving the decimal point two places to the left.

Example $48\% = \frac{48}{100}$
 $= 0.48$

Another way to write a fraction as a decimal is to write the percent as a fraction. Then write the fraction as a decimal.

Examples

Tutor

Write each percent as a decimal.

1. 56%

Method 1 Write the percent as a fraction.

$56\% = \frac{56}{100}$ Rewrite the percent as a fraction with a denominator of 100.
 $= 0.56$ Write 56 hundredths as a decimal.

Method 2 Move the decimal point.

$56\% = \underline{56}\%$ Move the decimal point two places to the left.
 $= 0.56$ Remove the percent sign.

2. 8%

$8\% = \frac{8}{100}$ Rewrite the percent as a fraction with a denominator of 100.
 $= 0.08$ Write 8 hundredths as a decimal.

3. 2%

$2\% = \underline{02}\%$ Move the decimal point two places to the left.
 $= 0.02$ Remove the percent sign.

Got it? Do these problems to find out.

a. 32%

b. 6%

c. 93%

Show your work.

a. _____

b. _____

c. _____

Percents and Decimals



Real-World Link

Watch



School A recent survey tells the favorite subjects of students at Martin Middle School.

Math: 28%
Art: 16%

Science: 21%
English: 13%

Social Studies: 15%
Other: 7%

1. Write a fraction with a denominator of 100 to represent the percent for each subject.

Math: $\frac{\boxed{}}{100}$

Science: $\frac{\boxed{}}{100}$

Art: $\frac{\boxed{}}{100}$

Social Studies: $\frac{\boxed{}}{100}$

English: $\frac{\boxed{}}{100}$

Other: $\frac{\boxed{}}{100}$

2. Write each fraction from Exercise 1 as a decimal.

Math: $\boxed{}$

Science: $\boxed{}$

Art: $\boxed{}$

Social Studies: $\boxed{}$

English: $\boxed{}$

Other: $\boxed{}$

3. **MP Make a Conjecture** Look back at Exercise 2. Compare the decimals to the percents. Explain how to write a percent as a decimal.



Essential Question

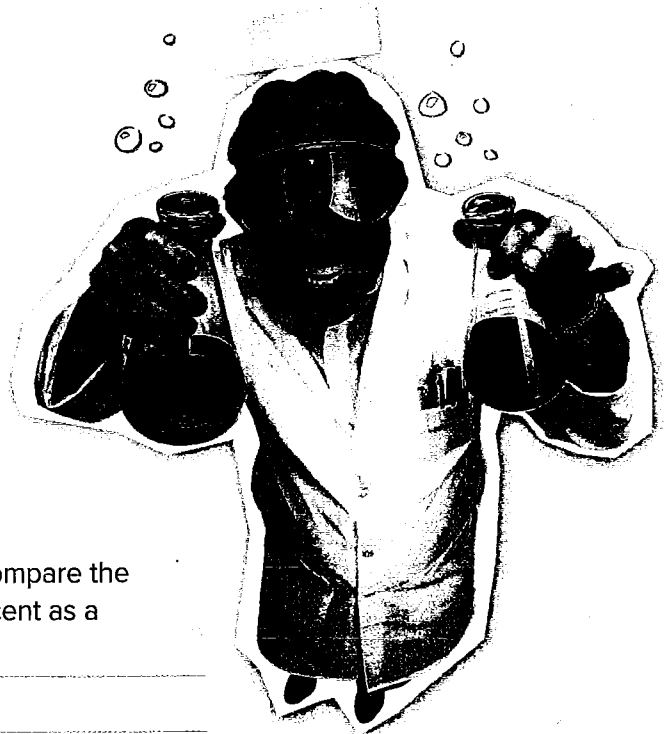
WHEN is it better to use a fraction, a decimal, or a percent?



Common Core State Standards

Content Standards
Preparation for 6.RP.3c

MP Mathematical Practices
1, 3, 4, 5, 6



Which **MP Mathematical Practices** did you use?

Shade the circle(s) that applies.

① Persevere with Problems

⑤ Use Math Tools

② Reason Abstractly

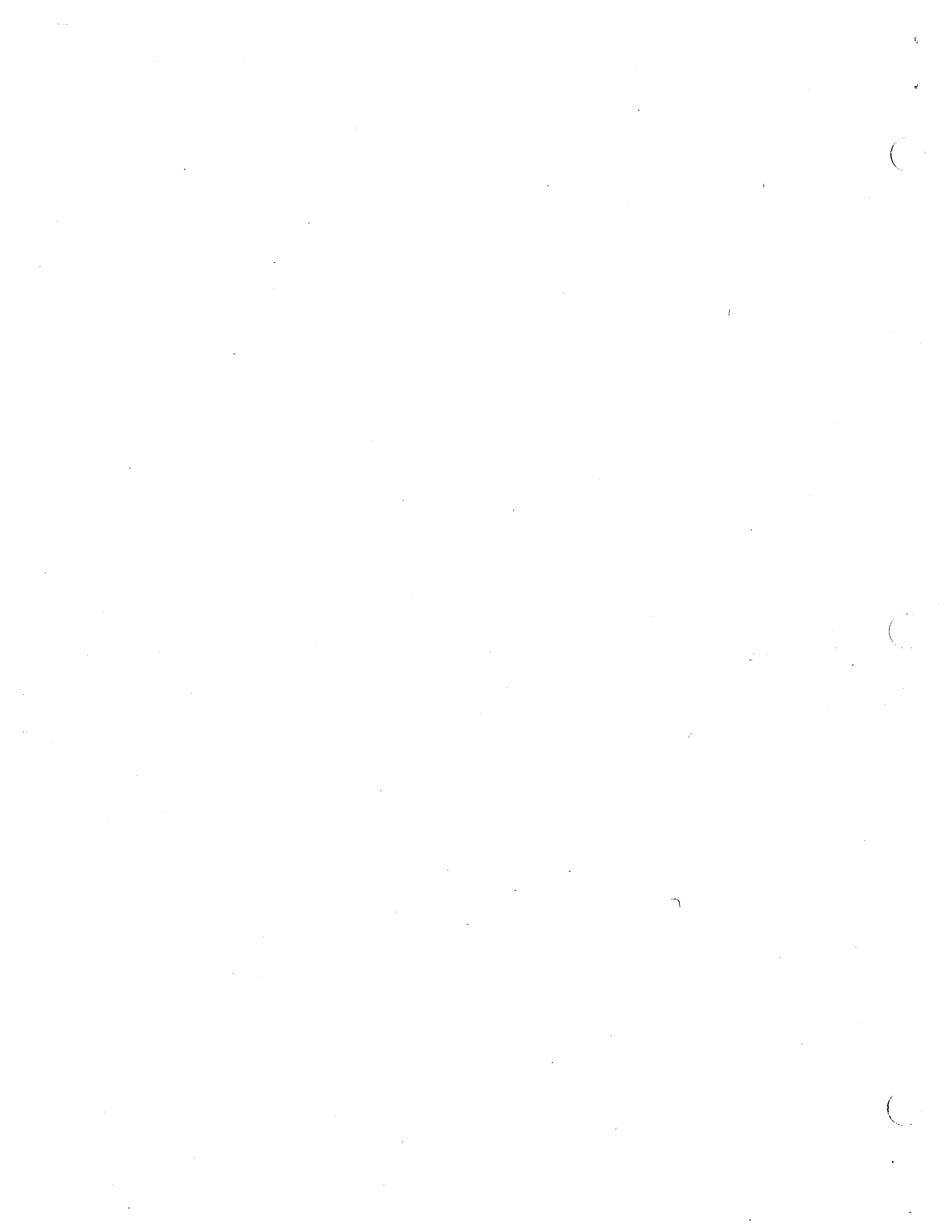
⑥ Attend to Precision

③ Construct an Argument

⑦ Make Use of Structure

④ Model with Mathematics

⑧ Use Repeated Reasoning



Name:
Date: December 6, 2018

DEFINE Can you explain the terms below in your own words?

SOIL:

HUMUS:

WEATHERING:

EROSION:

HORIZON A (TOPSOIL):

HORIZON B (SUBSOIL):

LEACHING:

HORIZON C:

SOIL PROFILE:

BEDROCK:

Choose an additional term from the movie to define.

RACES

Sentence Starters for RACES:

Restate/Answer → Based on what I read,

Cite Text Evidence → I know this because the text says, “ ”

Explain/Elaborate the Evidence → This supports my answer because

Summarize your Information → In conclusion,

RACES

RACES

R Restate the question.

A Answer the question.

C Cite text evidence.

E Explain the evidence.

S Summarize your information

1. Begin your response by changing the question into a statement

2. Answer all of the parts of the question in complete sentences.

3. Search the text to find details and examples that support your answer.

4. Explain how this evidence supports your answer.

5. Summarize your information. Restate the question with your conclusion.

When do we use the RACES format?

Name:

RACES Rubric

	5	2.5	0
<u>R</u>	Restated the question completely.	Attempted to restate the question but was unsuccessful.	Did not attempt to restate the question.
<u>A</u>	Considered all parts of the question and answered each part accurately.	Missed part of the question OR didn't consider all parts of question OR attempted to answer but did not answer correctly.	Did not attempt to answer the question at all.
<u>C</u>	Properly cited adequate evidence from the text that supported the answer.	Evidence used either did not support the answer or was not correctly used.	Did not attempt to cite text evidence.
<u>E</u>	Made a connection with the text and clearly explained how it supported your answer.	Attempted to make a connection to the text and answer but was unable to explain its relationship clearly.	Did not attempt to explain OR made no clear connection.
<u>S</u>	Summarized response by clearly restating question and answer.	Attempted to summarize but did not restate question or answer.	Did not attempt to summarize.
<u>SENTENCES STARTERS</u>	Properly used a Sentence Starter for each RA, C, E, S sentence.	Attempted to use sentences starters for most sentences in response.	Used only one sentence starter OR Did not attempt to use many.
<u>Underlined RACES</u>	Underlined all of RACES correctly	Underlined some of RACES correctly	Didn't Underline
<u>Mechanics</u>	Few spelling and grammar errors; correct punctuation; complete sentences	Some spelling and grammar errors; most sentences have punctuation and are complete; uses upper- and lowercase	Many spelling, grammar, and punctuation errors; sentence fragments; incorrect use of capitalization

Total: _____ / 40 points

Name: _____

The Lion, the Witch, and the Wardrobe Chapter 7

p. 74

Part A: How does Edmund feel after hearing the name "Aslan"?

- e. He jumps with joy and excitement.
- f. He becomes terrified.
- g. He runs away from the group screaming.
- h. He hugs his siblings and says he can't wait to meet Aslan.

Part B: What does this reaction indicate about Edmund? Use evidence from the text to support your answer.

Remember:

- Be sure to answer all questions asked!
- Use the RACES format
- Please underline your RACES (R)Red, (A)Orange, (C)Yellow, (E)Green, (S)Blue

RA: Based on what I read, _____

C: I know this because the text says, _____

E: This supports my answer, because _____

S: In conclusion, _____
