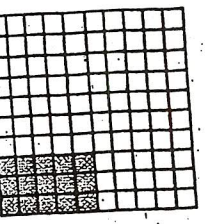
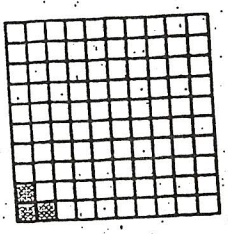
Percents

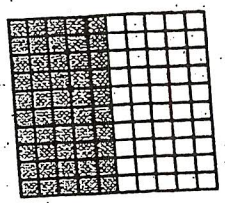
...ıe fraction, decimal and percent represented by the shaded part of each square.



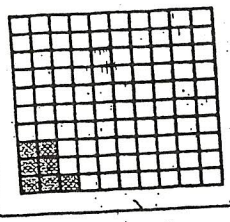
Fraction _____ Decimal _____ Percent _____



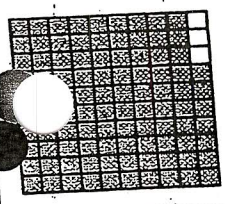
Fraction _____ Decimal _____ Percent _____



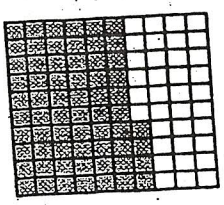
Fraction _____ Decimal _____ Percent _____



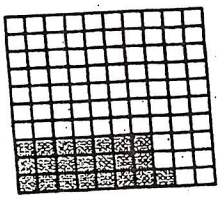
Fraction _____ Decimal _____ Percent _____



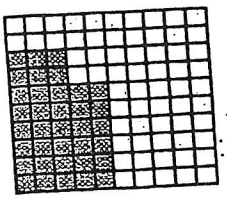
Fraction _____ Decimal _____ Percent _____



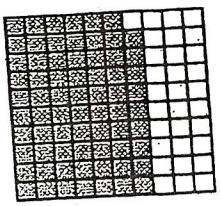
Fraction _____ Decimal _____ Percent _____



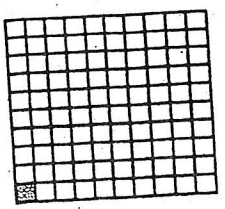
Fraction _____ Decimal _____ Percent _____



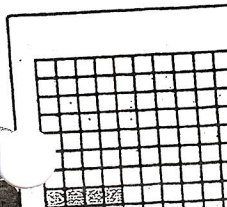
Fraction _____ Decimal _____ Percent _____



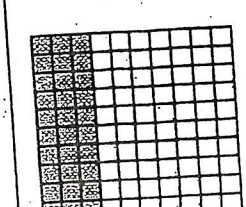
Fraction _____ Decimal _____ Percent _____



Fraction _____ Decimal _____ Percent _____



Fraction _____ Decimal _____ Percent _____



Fraction _____ Decimal _____ Percent _____

Fraction _____ Decimal _____ Percent _____

ACTIVITY 103 Decimals on a Grid

Name: _____

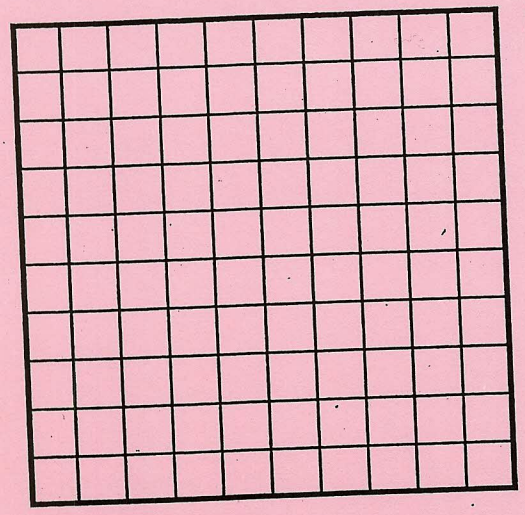
Date: _____

Decimals can be shown on a grid. Each grid equals one whole. Each small square equals $\frac{1}{100}$ or 0.01.

Shade in the right number of squares to show the decimals.

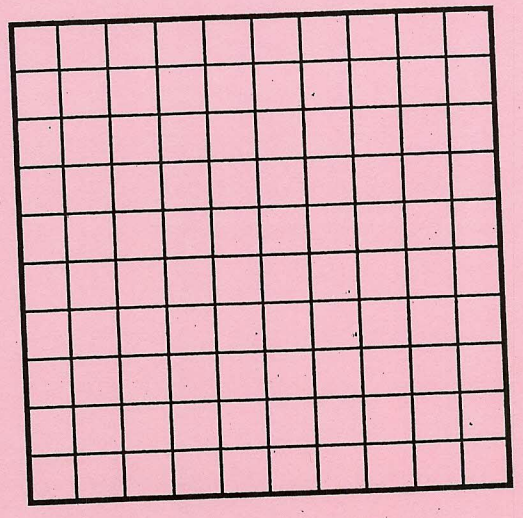
1. [redacted]

$\frac{3}{4}$



2. [redacted]

$\frac{2}{5}$



Daily Skill Builders: Fractions & Decimals

Decimals on a Grid/Decimals and Fractions

ACTIVITY 103 Decimals on a Grid

Name: _____

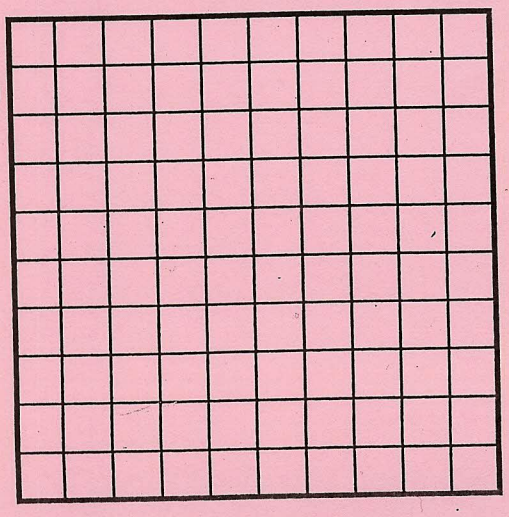
Date: _____

Decimals can be shown on a grid. Each grid equals one whole. Each small square equals $\frac{1}{100}$ or 0.01.

Shade in the right number of squares to show the decimals.

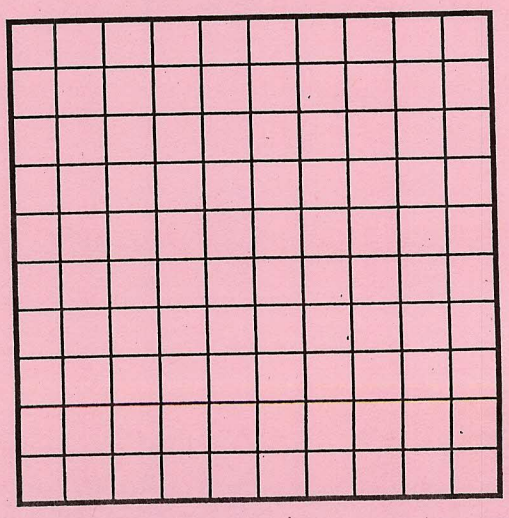
1. [redacted]

0.50



2. [redacted]

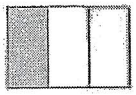
0.25



Name _____ Date _____

SOL 6.1 – Equivalence Relationship between Fractions, Decimals and Percents

6. What percent of the rectangle is shaded?



F 1%
G 13%
H 33.3%
J 40%

7. Which of the following statements is *true*?

A $\frac{1}{2} = 0.05 = 50\%$

B $\frac{1}{3} = 0.33 = 30\%$

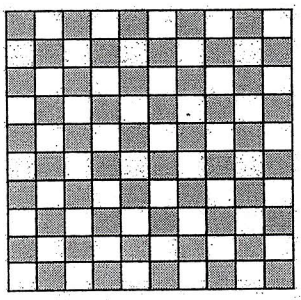
C $\frac{1}{4} = 0.25 = 20\%$

D $\frac{1}{5} = 0.2 = 20\%$

8. The sales tax rate in Greensville County is 4.5%. Which is this rate written as a fraction in simplest form?

F 0.045
G 0.45
H $4\frac{5}{10}$
J $4\frac{1}{2}$

9. Which represents the part of the 10-by-10 grid that is shaded?



A 0.12
B 0.5
C 0.75
D 0.8

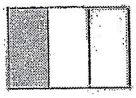
10. Which is the decimal equivalence for $\frac{2}{25}$?

F 0.8
G 0.12
H 0.08
J 0.012

Name _____ Date _____

SOL 6.1 – Equivalence Relationship between Fractions, Decimals and Percents

6. What percent of the rectangle is shaded?



F 1%
G 13%
H 33.3%
J 40%

7. Which of the following statements is *true*?

A $\frac{1}{2} = 0.05 = 50\%$
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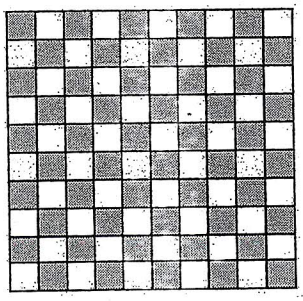


A 0.12
B 0.5
C 0.75
D 0.8

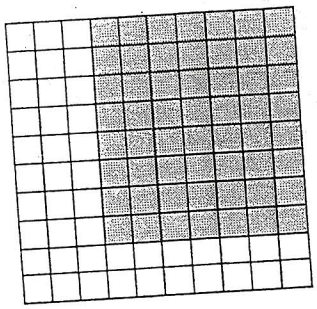
10. Which is the decimal equivalence for $\frac{2}{25}$?

F 0.8
G 0.12
H 0.08
J 0.012

Name _____ Date _____

Equivalence Relationship between Fractions, Decimals and Percents
SOL 6.1

1. Which represents the part of the 10-by-10 grid that is shaded?



A $\frac{2}{3}$

B $\frac{3}{4}$

C $\frac{14}{25}$

D $\frac{7}{10}$

2. Which is equivalent to $\frac{4}{5}$?

F 0.8%

G 8%

H 80%

J 800%

3. Which fraction has the same value as 0.2?

A $\frac{1}{3}$

B $\frac{1}{4}$

C $\frac{1}{5}$

D $\frac{1}{6}$

4. Which is equivalent to 0.125?

F 0.125%

G 12%

H 12.5%

J 125%

5. Which is equivalent to $\frac{3}{8}$?

A 0.25

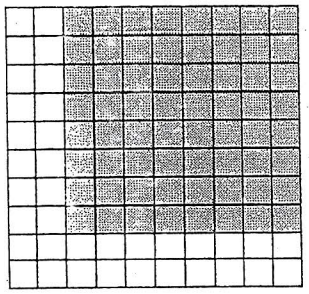
B 0.375

C 0.39

D 2.67

Name _____ Date _____

6. **Which represents the part of the 10-by-10 grid that is shaded?**



F 8%
G 64%
H 80%
J 90%

7. **Amy correctly answered 18 out of 20 questions on her math test. What percent of the questions did she answer correctly?**

A 10%
B 18%
C 80%
D 90%

8. **What percent of the rectangle is shaded?**

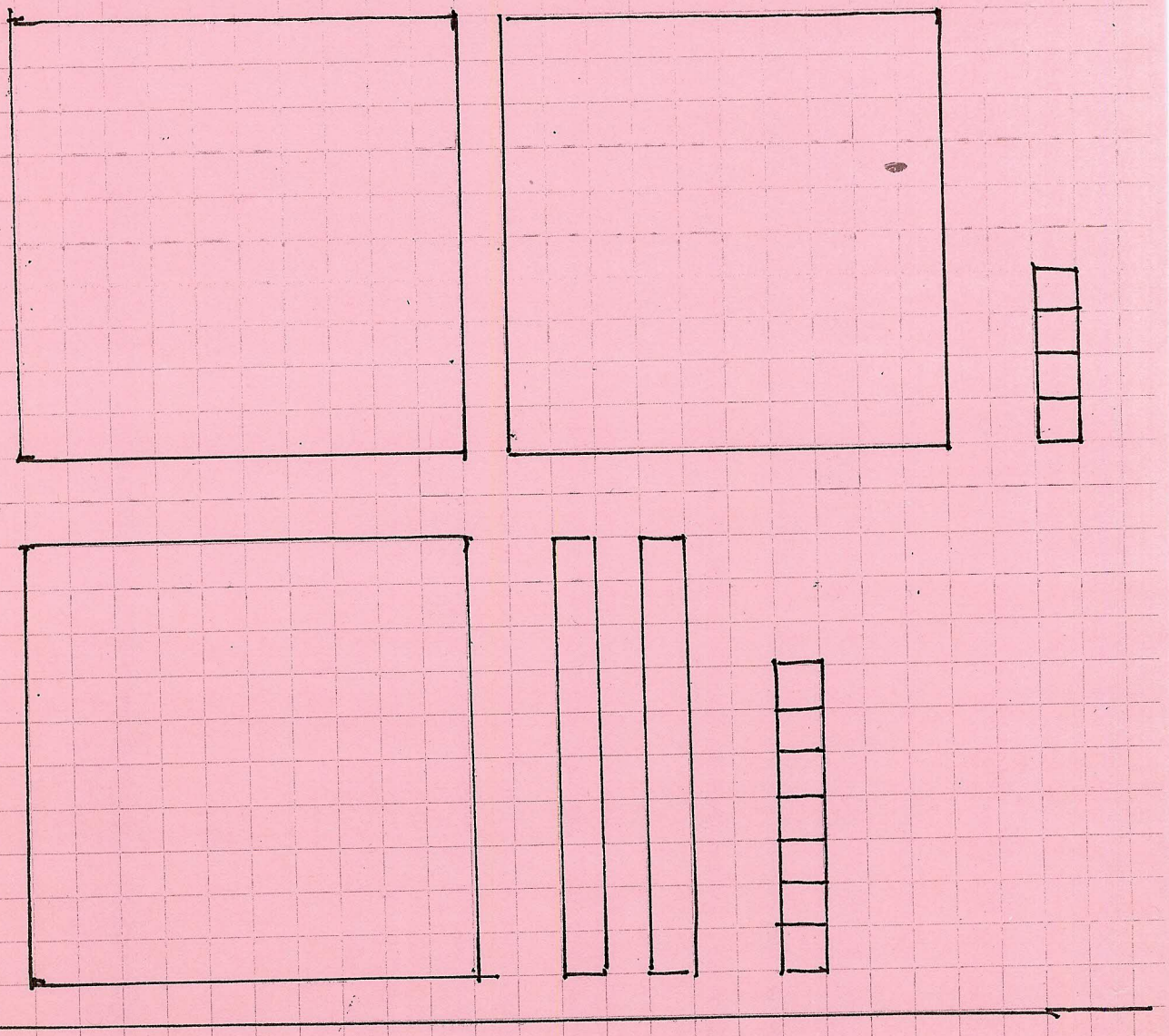
F 20%
G 40%
H 60%
J 80%

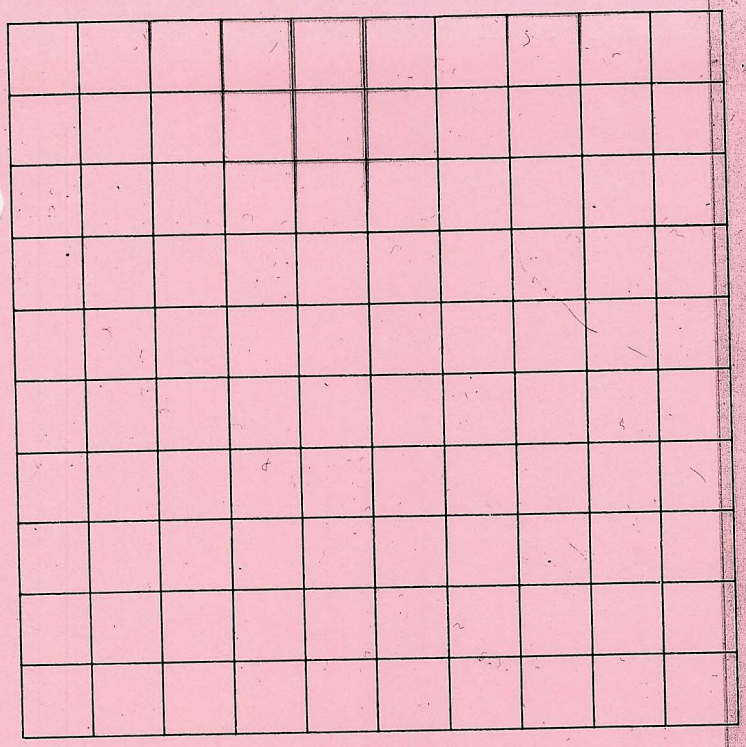
9. **The winning candidate for SCA President received 65% of the votes. What fraction of the votes did he receive?**

A $\frac{11}{20}$
B $\frac{9}{20}$
C $\frac{13}{20}$
D $\frac{11}{25}$

10. Sarah made a pecan pie for Thanksgiving. Her family ate 6 of the pie's 8 equal slices. What percent of the pie did the family eat?

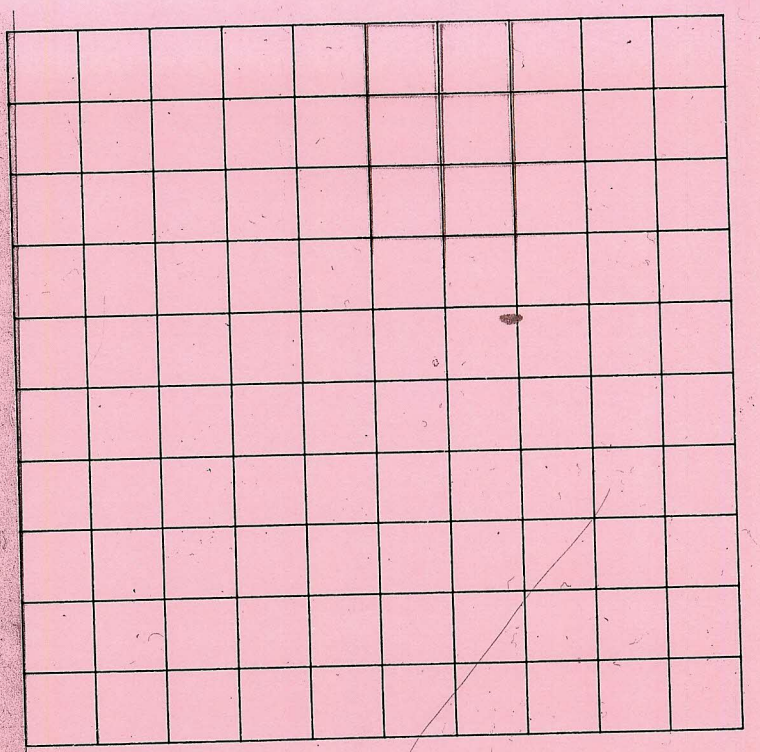
F 60%
G 70%
H 75%
J 80%





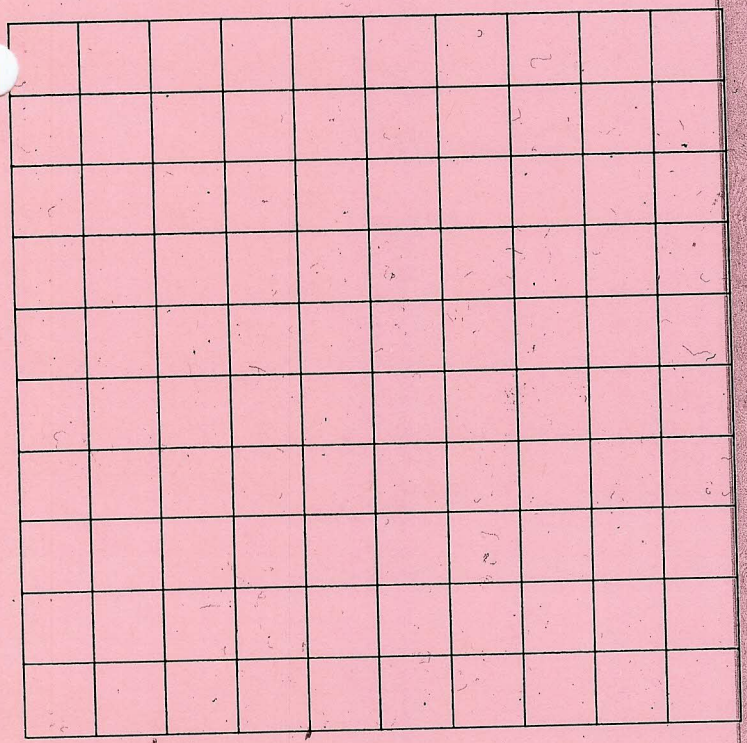
Leicestershire Learning Systems

AREA GRID (10 cm x 10 cm)



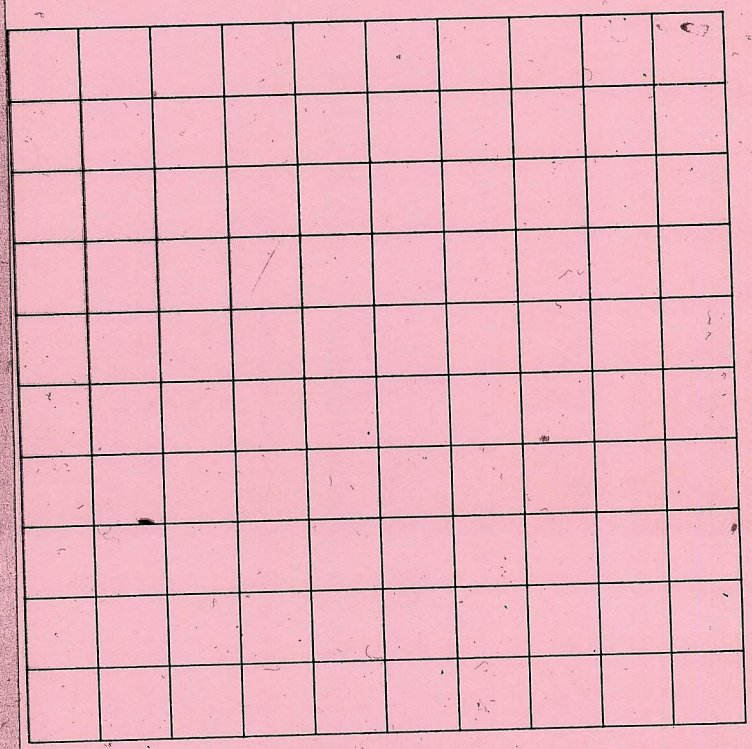
Leicestershire Learning Systems

AREA GRID (10 cm x 10 cm)



Leicestershire Learning Systems

AREA GRID (10 cm x 10 cm)



Leicestershire Learning Systems

AREA GRID (10 cm x 10 cm)

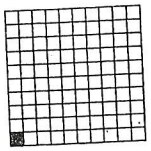
Name: _____

Decimals

A **decimal** is a number that includes a period called a **decimal point**. The digits to the right of the decimal point are a value less than one.

one whole

one tenth



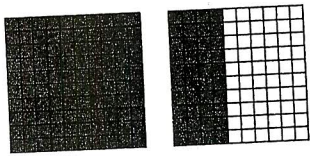
one hundredth

The place value chart below helps explain decimals.

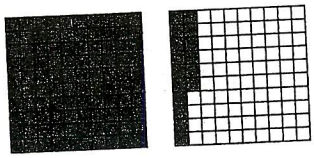
hundreds	tens	ones		tenths	hundredths	thousandths
6	3	2	.	4		
	4	7	.	0	5	
		8	.	0	0	9

A decimal is read as "and." The first number, 632.4, is read as "six hundred thirty-two and four tenths." The second number, 47.05, is read as "forty-seven and five hundredths." The third number, 8.009, is read as "eight and nine thousandths."

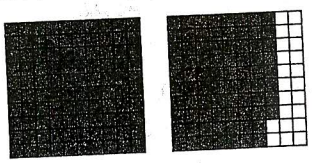
Directions: Write the decimals shown below. Two have been done for you.



1. 1.4



2. _____



3. _____

4. six and five tenths 6.5
5. twenty-two and nine tenths _____
6. thirty-six and fourteen hundredths _____
7. forty-seven hundredths _____
8. one hundred six and four tenths _____
9. seven and three hundredths _____
10. one tenth less than 0.6 _____
11. one hundredth less than 0.34 _____
12. one tenth more than 0.2 _____

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NAME _____ DATE _____ PERIOD _____

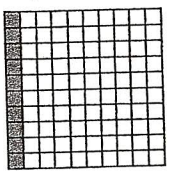
10-4 Study Guide and Intervention

Modeling Percents

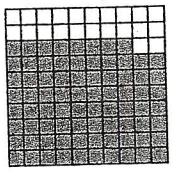
Ratios like 41 out of 100, 25 out of 100, or 2 out of 100 can be written as percents. A **percent** (%) is a ratio that compares a number to 100. Since the word percent means *out of one hundred*, you can use a 10 × 10 grid to model percents.

EXAMPLES

1 **Model 10%.**
10% means 10 out of 100.
So, shade 10 of the 100 squares.



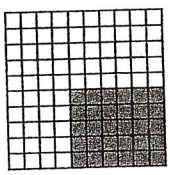
2 **Model 78%.**
78% means 78 out of 100.
So, shade 78 of the 100 squares.



You can use what you know about decimal models and percents to identify the percent of a model that is shaded.

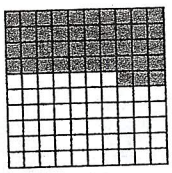
EXAMPLES **Identify each percent that is modeled.**

3



There are 30 out of 100 squares shaded. So, the model shows 30%.

4

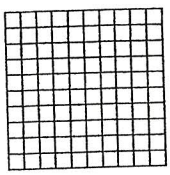


There are 43 out of 100 squares shaded. So, the model shows 43%.

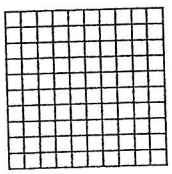
EXERCISES

Model each percent.

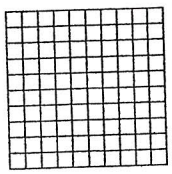
1. 20%



2. 55%

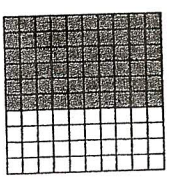


3. 12%

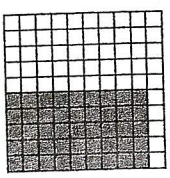


Identify each percent that is modeled.

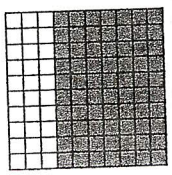
4.



5.



6.



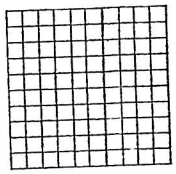
NAME _____ DATE _____ PERIOD ____

10-4 Practice: Skills

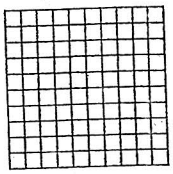
Modeling Percents

Model each percent.

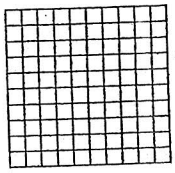
1. 15%



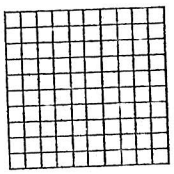
2. 50%



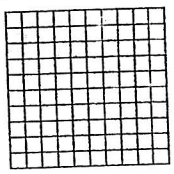
3. 75%



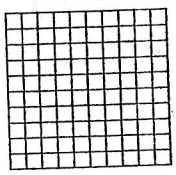
4. 80%



5. 21%

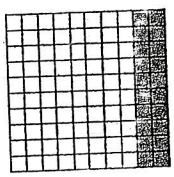


6. 48%

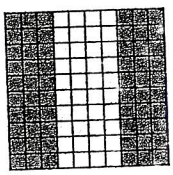


Identify each percent that is modeled.

7.



8.



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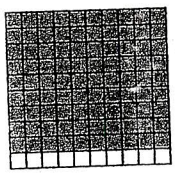

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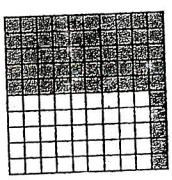

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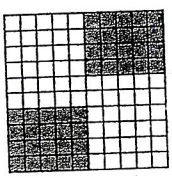

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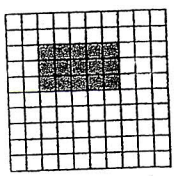

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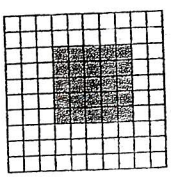

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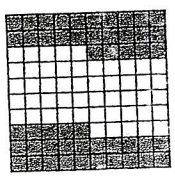

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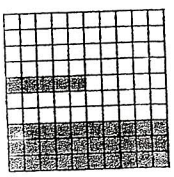


Lesson 10-4

© Glencoe/McGraw-Hill

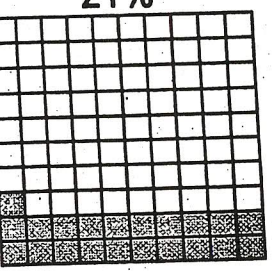
Shading Percents

Percents

Shade the part of the squares indicated by the percent.

Example

21%



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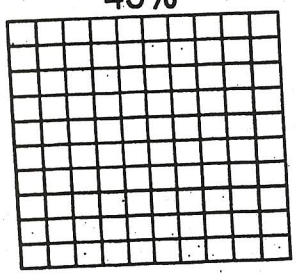

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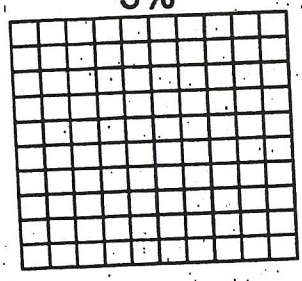

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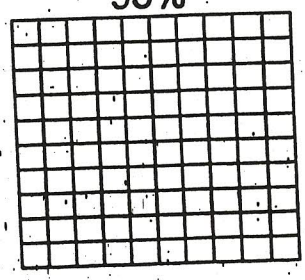

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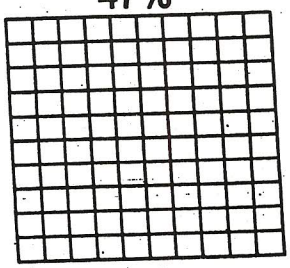

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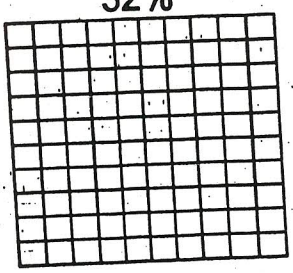

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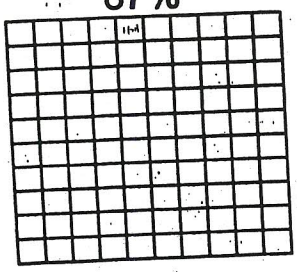

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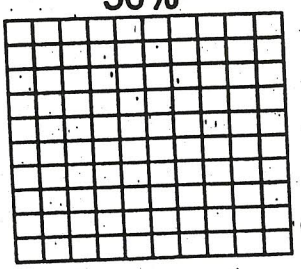

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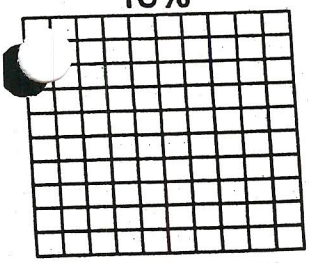

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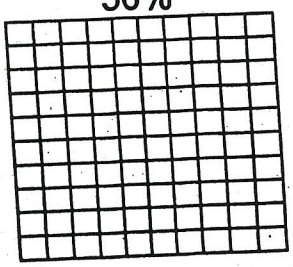

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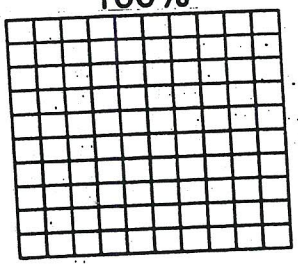

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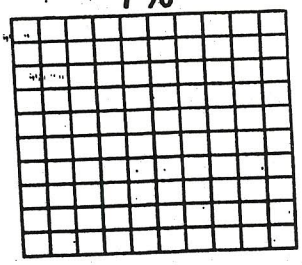

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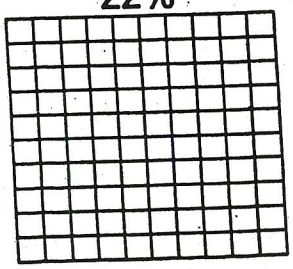
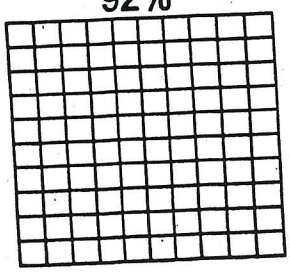


92%



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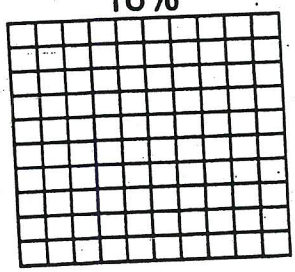

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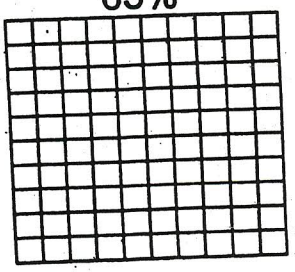

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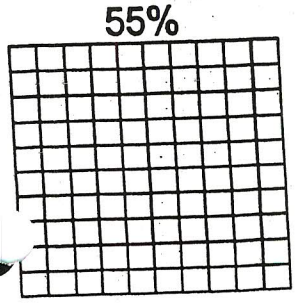

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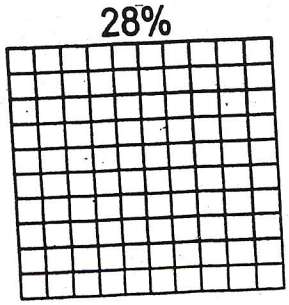

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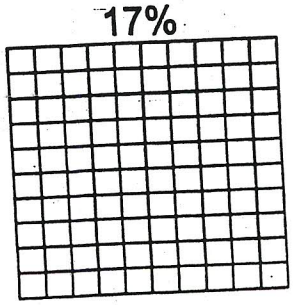

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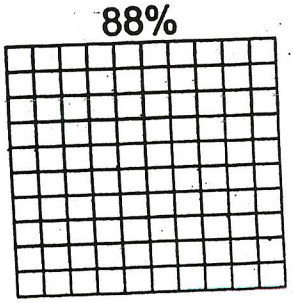
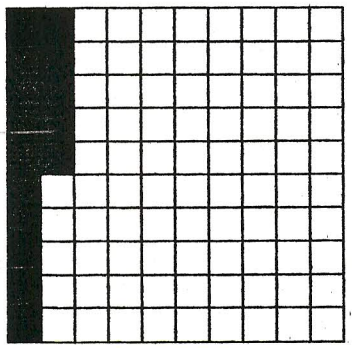


Name _____ Date _____

Unit 3: Percents—Computation

Percent

Percent means per hundred. The symbol for percent is %. Use a percent to show the ratio of shaded blocks to all 100 blocks.



15 out of 100

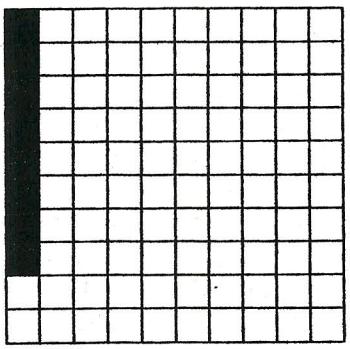
Ratio → $\frac{15}{100}$

Decimal → 0.15

Percent → 15%

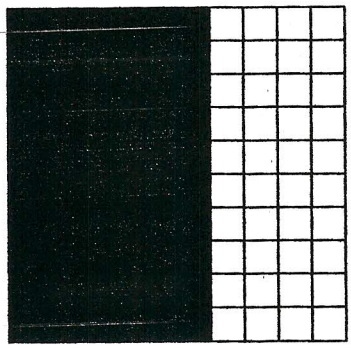
✎ **Write the percent that tells what part is shaded.**

1.



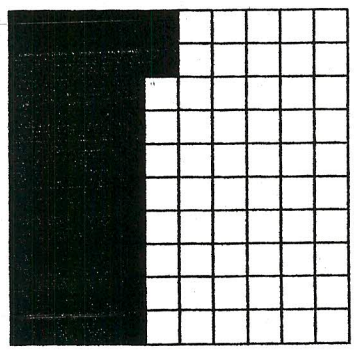
_____

2.



_____

3.



_____

✎ **Write the percents for the ratios.**

4. 7 out of 100 _____ **5.** 6 out of 100 _____ **6.** 24 out of 100 _____

7. $\frac{5}{100}$ _____ **8.** $\frac{28}{100}$ _____ **9.** $\frac{89}{100}$ _____

10. $\frac{100}{100}$ _____ **11.** $\frac{29}{100}$ _____ **12.** $\frac{17}{100}$ _____

✎ **Write the percents for the decimals.**

13. 0.82 _____ **14.** 0.99 _____ **15.** 0.01 _____ **16.** 0.56 _____

17. 0.03 _____ **18.** 0.25 _____ **19.** 0.02 _____ **20.** 0.31 _____

© Steck-Vaughn Company

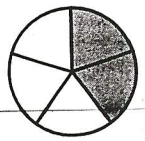
Name _____

Practice
10-8

What is a Percent?

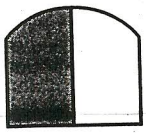
Give the percent of each figure that is shaded.

1. _____

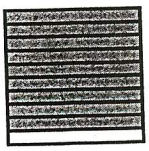


2. _____

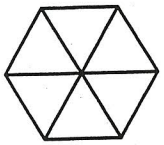
3. _____



4. _____

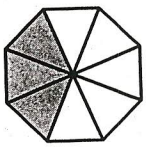


5. _____

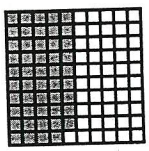


6. _____

7. _____



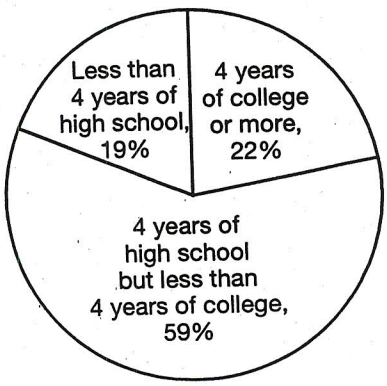
8. _____



9. _____

The circle graph shows the educational attainment of Americans over 25 years old in 1994. Use the graph for Exercises 10–12.

Educational Attainment of Americans



10. What percent of the population has completed

less than 4 years of high school? _____

4 years of high school or more? _____

11. Which category includes the highest percent of Americans over 25?

_____

What is the percent? _____

12. Which two categories combined amount for 41% of Americans over 25?

_____

13. Geography 22% of the land in Vietnam is arable (suitable for farming). What percent is not arable? _____

© Scott Foresman • Addison Wesley 6

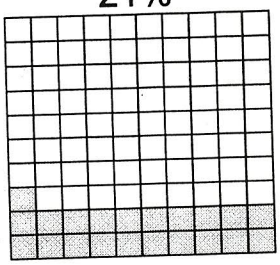
Shading Percents

Percents

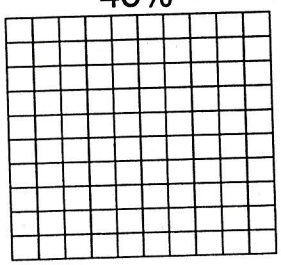
Shade the part of the squares indicated by the percent.

Example

21%



45%



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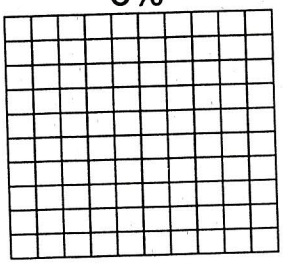
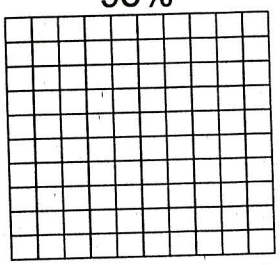


95%



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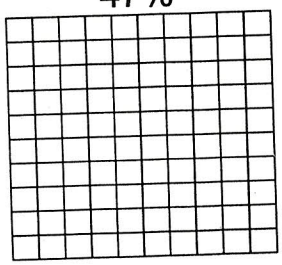
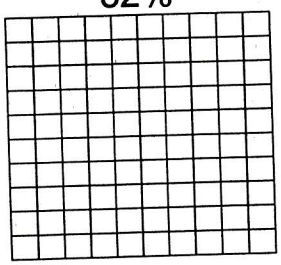


32%



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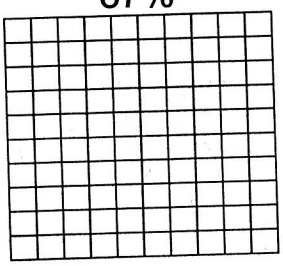

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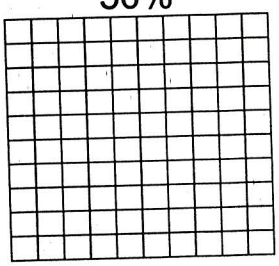

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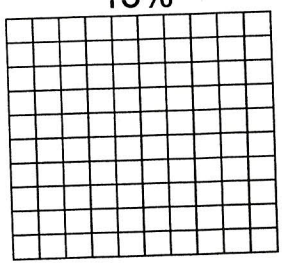

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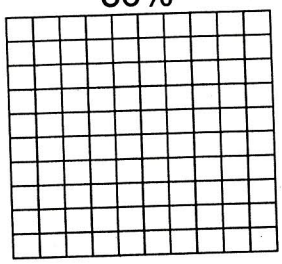

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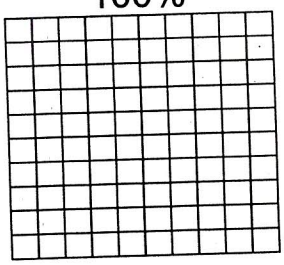

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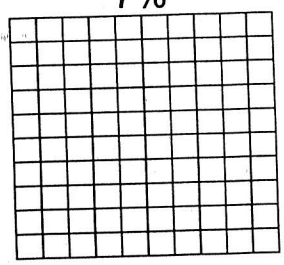

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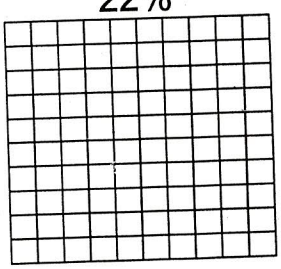

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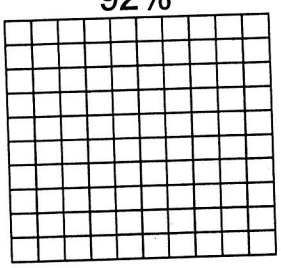

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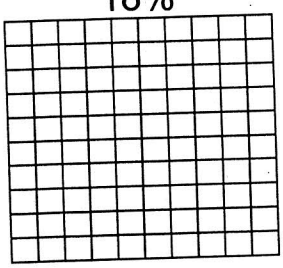

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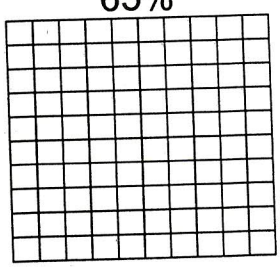

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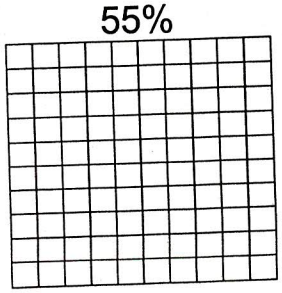

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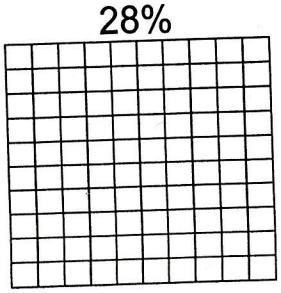

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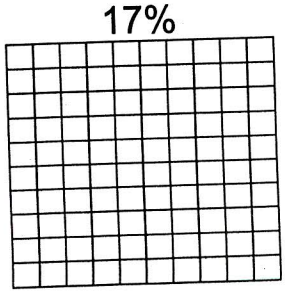
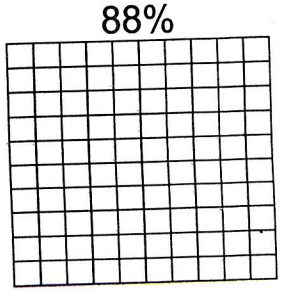
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