

Finding Percents of Shaded Grids

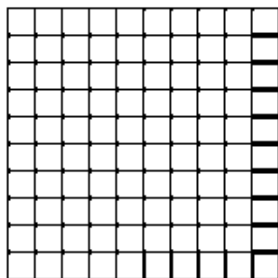
Lesson 3-9

DATE

TIME

Math Message

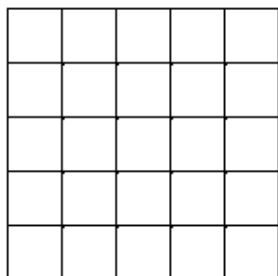
- 1 Shade 12 squares on the 10-by-10 grid.



What percent is shaded? _____

How can you use the shaded grid to show your answer is correct?

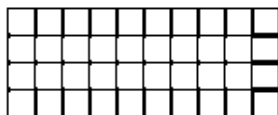
- 2 Shade 12 squares on the 5-by-5 grid.



What percent is shaded? _____

How can you use the shaded grid to show your answer is correct?

- 3 Shade 12 squares on the 4-by-10 grid.



What percent is shaded? _____

How can you use the shaded grid to show your answer is correct?

Designing Movie Posters

Lesson 3-9

DATE _____

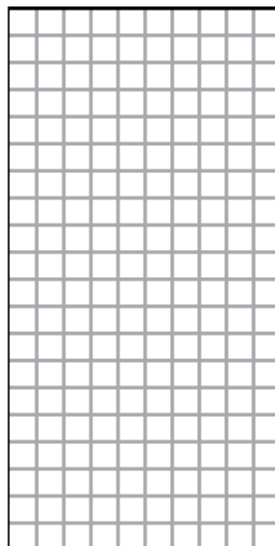
TIME _____

- 1 A movie poster has three sections: the title, photos of the actors, and credits (including the director's name). Use the following criteria to design a poster:

- The title section is 25% of the poster.
 - The photos section is 40% of the poster.
 - The credits section is 35% of the poster.
- a. Label each section and outline it in a different color.
- b. How many squares are in each section?

Title: _____ Photos: _____ Credits: _____

- c. Explain how you figured out how much to outline for the title section.

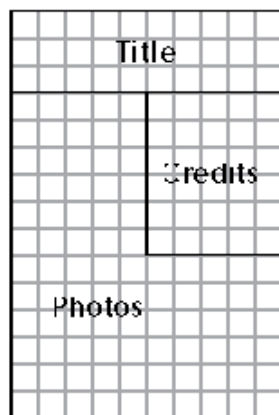


- 2 What percent of the poster at right is each section?

a. Title: _____ b. Photos: _____ c. Credits: _____

d. Percent total for all sections: _____

- e. Explain how you found the percent of the poster that the title covers.



Try This

- 3 Consider a 20-by-12 grid for a movie poster design. Record the number of squares and the percent that each section covers on the poster.

a. Photos cover 1 of every 2 squares. Squares: _____ Percent: _____

b. The title covers 1 of every 5 squares. Squares: _____ Percent: _____

c. The credits cover 1 of every 4 squares. Squares: _____ Percent: _____

Solving Percent Number Stories



DATE

TIME

≈ 25 ② * 50
 $* .42$
 $\frac{100}{21.08}$
 $1,200,000$
 $.42 \cdot 50$
 $\frac{21}{50} \cdot \frac{21}{1}$
 $\frac{60}{5 \cdot 20} \frac{60}{100}$
 60%
 21

- 1 Suppose that 50% of a movie's budget goes toward actors' salaries. A movie has a total budget of \$2,400,000.

How much money will be spent on actors' salaries? 1,200,000

- 2 Henri had saved \$50. He spent 42% of that on downloading movies.

How much did he spend on movies? \$21

- 3 At Main Street Cinema, 3 out of every 5 people who see movies see comedies. What percent of moviegoers at Main Street Cinema see comedies? 60%

- 4 On its opening weekend, 27 of the 75 sixth graders at Park Middle School went to see a new action movie.

What percent of the sixth graders saw the movie on opening weekend? _____


- 5 Marisol owns 6 movies that are comedies.

That is 20% of her collection.

How many total movies does she have? _____

Try This

- 6 a. X is what percent of Y? _____%

X: 

Y is what percent of X? _____%

Y: 

- b. F is what percent of G? _____%

F: 

G is what percent of F? _____%

G: 

- c. Describe a pattern you notice in the answers to Parts a and b.



- 1 Kurt is making granola. The recipe calls for $3\frac{2}{3}$ cups of oats. He only wants to make half the recipe. How many cups of oats does he need?

Number model: _____

Solution: _____



- 2 Which of the following numbers are equivalent to 0.95? Check all that apply.

$\frac{95}{100}$

$\frac{180}{200}$

$\frac{19}{20}$

0.9500



- 3 Name two decimal numbers between 0.35 and 0.36.



- 4 Zoey is working on her running pace. She can run 2 miles in $18\frac{1}{2}$ minutes. She keeps running at the same speed. How long should it take her to run 3 miles?

Hint: A ratio/rate table might be helpful.



- 5 Numbers of pencils in students' lockers are shown below:

10, 4, 5, 6, 20, 1, 2, 3, 5

Range: _____

Median: _____



- 6 Find the least common multiples.

a. LCM (8, 10) = _____

b. LCM (32, 12) = _____

c. LCM (15, 20) = _____

d. LCM (7, 10) = _____

