Get Ready

Name: _____ Date: _____

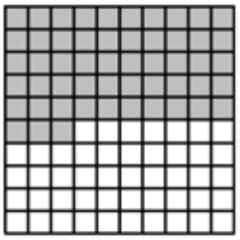
BLM 4–2

Percents

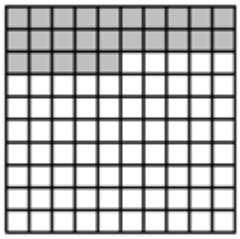
Percent means out of 100.

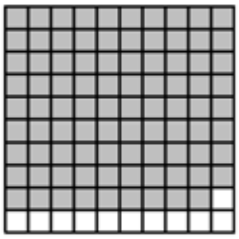
A percent can be represented by shading on a hundred grid.

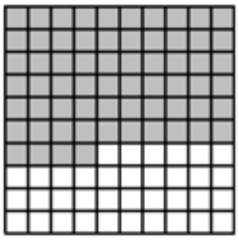
This grid represents 53%.



1. What percent is shown on each grid?

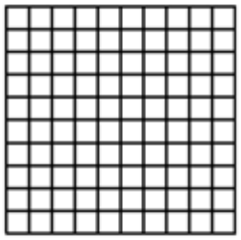
a) 

b) 

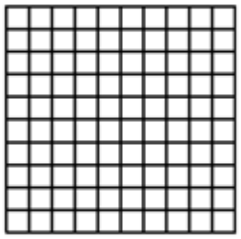
c) 

2. Shade hundred grids to represent each percent.

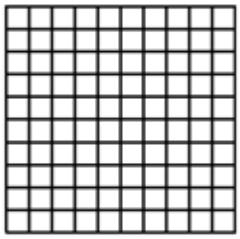
a) 3%



b) 46%

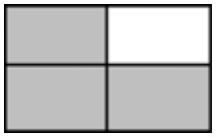


c) 97%



Fractions, Decimals, and Percents

This diagram represents $\frac{3}{4}$.



This fraction is 0.75 or 75% of the square.

To change a decimal to a percent, multiply by 100 and add a percent symbol.

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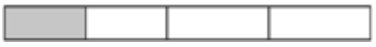
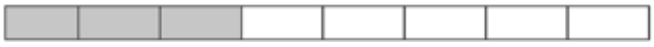
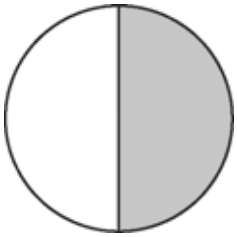
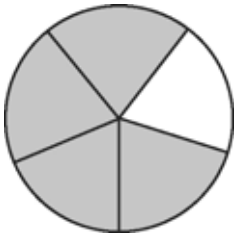
(continued)

3. Show each diagram as a fraction, a decimal, and a percent.

a) 

b) 

c) 

d) 

Repeating Decimals

A **repeating decimal** contains one or more digits that repeat over and over without ending.

$\frac{2}{3} = 0.\overline{6}$ C **2** ÷ **3** = 0.6666666...

Use a bar to show the repeating part.

To show as a percent, multiply the decimal by 100 and add a percent symbol.

$0.\overline{6} = 66.\overline{6}\%$

4. Show as repeating decimals.

a) 0.3333333
b) 0.4545454
c) 0.2727272

5. Show each fraction as a repeating decimal and as a percent.

a) $\frac{9}{11}$ **b)** $\frac{7}{9}$ **c)** $\frac{5}{6}$

Estimating Percents

To estimate the percent of a number, use percents you know.

52% of 250 is about 50% of 250.
50% of 250 is half of 250 or 125.

12% of 60 is about 10% of 60.
10% is about one tenth of 60 or 6.

6. Estimate each percent of a number.

a) 22% of 85 **b)** 48% of 102 **c)** 75% of 70 **d)** 82% of 91