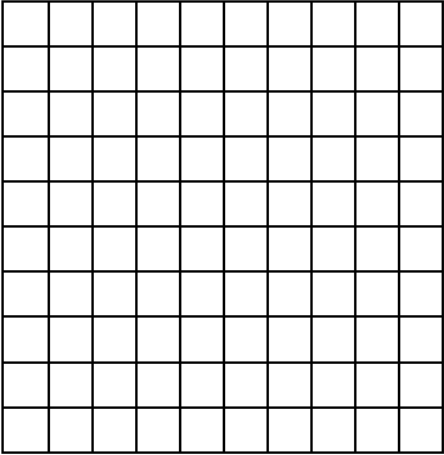



Do Now

A winter jacket costs \$200. There is a 40% sale on this item, so now the item is _____% of its original price.

1. If I want to represent \$200 in the following models, how much \$ should each square or segment represent?

<p style="text-align: center;">10x10 area model</p> <p style="text-align: center;">The whole area is 100% = \$200. Each square represents 1% = \$_____.</p> 	<p style="text-align: center;">Percent bar model</p> <p style="text-align: center;">The whole bar is 100% = \$200. Each segment represents _____% = \$_____.</p> <div style="text-align: center; margin-top: 20px;"> <p>\$0 \$200</p>  <p>0% 100%</p> </div>
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2. In each of the models above, shade in the amount that represents 60% of \$200.
3. What is 60% of \$200? _____

Bar Model

When using a bar model, the whole bar represents 100%. For each bar model below, write in what % each segment represents. Then, shade in the area that represents the percent.

1. 50%



2. 75%



3. 80%



4. 30%



Benchmark Percents

100%

50%	50%
------------	------------

$33\frac{1}{3}\%$	$33\frac{1}{3}\%$	$33\frac{1}{3}\%$
-------------------------------------	-------------------------------------	-------------------------------------

25%	25%	25%	25%
------------	------------	------------	------------

20%	20%	20%	20%	20%
------------	------------	------------	------------	------------

$16\frac{2}{3}\%$	$16\frac{2}{3}\%$	$16\frac{2}{3}\%$	$16\frac{2}{3}\%$	$16\frac{2}{3}\%$	$16\frac{2}{3}\%$
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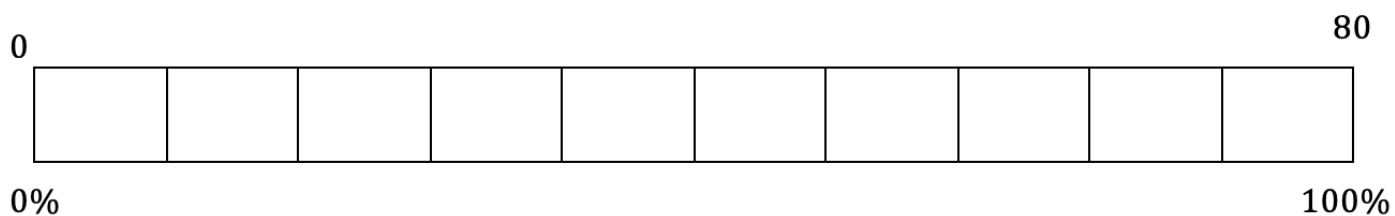
12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%
--------------	--------------	--------------	--------------	--------------	--------------	--------------	--------------

10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
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Using Percent Bar Models

We can use **bar models** to find percentages of numbers.

Example: Find 40% of 80.



Practice 1: Find 25% of the quantities below by drawing and labeling the appropriate segments for each bar model.

1. 25% of 200 = _____

A blank horizontal bar model for finding 25% of 200.

2. 25% of 60 = _____

A blank horizontal bar model for finding 25% of 60.

3. 25% of 20 = _____

A blank horizontal bar model for finding 25% of 20.

4. 25% of 400 = _____

A blank horizontal bar model for finding 25% of 400.

5. 25% of 2 = _____

A blank horizontal bar model for finding 25% of 2.

What pattern do you notice?

Why doesn't 25% always represent the same amount?

Practice 2: Find the given percentages of each whole below using the bar model.

1. 30% of 210 = _____

2. 25% of 180 = _____

3. 70% of 200 = _____

4. 40% of 160 = _____

Practice 3: Given a number and a whole, find the percentage that each number represents using the bar model.

1. _____ % of 300 = 60

2. _____ % of 84 = 63

3. _____ % of 140 = 28

Name _____

Date _____

Class _____

HW: Using Percent Bar Models

Part 1: Find the given percentages of each whole below using the bar model.

1. 20% of 120 = _____

2. 75% of 112 = _____

3. 70% of 340 = _____

Part 2: Given a number and a whole, find the percentage that each number represents using the bar model.

1. _____ % of 64 = 16

2. _____ % of 168 = 126

3. _____ % of 126 = 63