

MasterMath

Percentage Increase and Decrease

Name _____

Date _____

1. **Determine the % Increase or Decrease. Round to one decimal place.**

Original Value	New Value	% Increase	% Decrease
15 dogs	10 dogs		33.3%
\$125	\$150	20.0%	
12%	15%	25.0%	
52"	48"		7.7%
800	1000	25.0%	

Original Value	New Value	% Increase	% Decrease
25 frogs	125 frogs	400.0%	
\$1.25	\$2.25	80.0%	
1/4	1/2	100.0%	
7/8	1/2		42.9%
10 hits	22 hits	120.0%	

2. **Find the new amount.**

Original Value	Increased by	Decreased by	New Amount
13'	10.0%		14.3'
16 yards		25.0%	12 yds
11	5.5%		11.6
26 miles		10.5%	23.3 miles
3 hours	50.0%		4.5 hrs

Original Value	Increased by	Decreased by	New Amount
1/2	25.0%		5/8
2 1/2	50.0%		3 3/4
6.6		25.0%	4.95
18	18.0%		21.24
64		25.0%	48

3. **This year you ran a mile in 6.25 minutes. Last year you ran a mile in 6.75 minutes. How great a % change did you have this year over last year?**



7.4%

4. **The population of Center County changed. What was the percentage change?**

Population 2010	155,200
Population 2000	140,500

+ 10.5%

5. **We increase the dimensions of this rectangle by 150%. What is the perimeter of the new rectangle?**



66'

6. **A number increases by 20% after 1 year, then decreases by 20% after the 2nd year. Will the new number be less than, equal to or smaller than the original number?**

less than