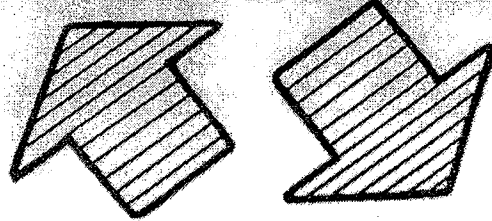


Name _____

UPS AND DOWNS

An amount of change can be stated as a percent of increase or percent of decrease. To determine the percent of change, divide the amount of change by the original quantity.



Ex. Membership increased from 200 to 250.
Amount of increase: $250 - 200 = 50$
Percent of increase: $50/200$ or 25%

Price dropped from \$200 to \$180.
Amount of decrease: $200 - 180 = 20$
Percent of decrease: $20/200$ or 10%

For each situation, determine the amount of change and the percent of change.

1. After the tune-up, the car's gas mileage increased from 25 mpg to 28 mpg.
2. The price of gasoline dropped from \$.96 to \$.90.
3. The infant's weight increased from 7.5 lbs. to 9 lbs.
4. Sale price of a \$125 suit was \$100.
5. Company profits increased from \$2 million to \$3 million.
6. A picture was reduced from 12" to 8".
7. A picture was enlarged from 8" to 12".
8. The 5' sapling grew into a 12' tree.
9. The budget was cut from \$25,000 to \$20,000.
10. The salary increased from \$20,000 to \$25,000.

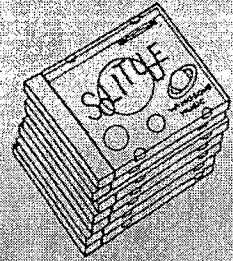
NAME _____

DATE _____

PERIOD _____

PRE-ALGEBRA
PERCENT CHANGE PRACTICE

The recording company you work for manufactures CDs, cassettes, and vinyl LPs. As a production supervisor, you have to forecast production levels for next year. To do that, you will examine the manufacturing trends over the previous years. The table below lists the production levels in millions for each of the three products your company manufactured, and the amounts that were produced. Use that information to answer the questions that follow.



Units Manufactured, 1992-1996

Product	1992	1993	% Change 92-93	1994	% Change 93-94	1995	% Change 94-95	1996	% Change 95-96
CD	407.5	495.4		662.1		722.9		778.9	
Cassette	366.4	339.5		345.4		272.6		225.3	
Vinyl LP	2.3	1.2		1.9		2.2		2.9	

Source: Recording Industry Association of America, 1996

- Fill in the table above with the percent changes from year to year.
- How many units of CDs will you recommend be manufactured next year?
Number of CDs: _____
- How many units of cassettes will you recommend be manufactured next year?
Number of cassettes: _____
- How many units of vinyl LPs will you recommend be manufactured next year?
Number of vinyl LPs: _____
- On the back of this page or on a separate sheet of paper, draft a memo to the production division manager that details your recommended production levels for the next year.