

Prerequisite Skills

Percents

- Convert each percent to a decimal.
 - 11%
 - 3.9%
 - 0.15%
 - 12.05%
 - 0.4%
 - $\frac{1}{2}\%$
 - $2\frac{1}{4}\%$
 - $-1\frac{1}{8}\%$
- Estimate each value.
 - $1900 \times 1.05\%$
 - 0.8% of 2600
 - 2.4% of 8280
 - $6720 \times 0.03\%$
- Evaluate. Express each answer as a decimal, rounded to four decimal places.
 - $\frac{5.5\%}{4}$
 - $\frac{7.5\%}{12}$
 - $\frac{9.75\%}{8}$
 - $\frac{5.75\%}{26}$
 - $\frac{12.5\%}{52}$
 - $\frac{10\%}{365}$

Time

- Convert each time to the unit specified.
 - 1 year to weeks
 - 3 months to weeks
 - 26 weeks to years
 - 3 years to months
 - 18 months to years
 - 146 days to years
- Find the number of intervals in each time period.
 - monthly intervals in 2 years
 - weekly intervals in 1.5 years
 - quarterly intervals in 3 years
 - annual intervals in 5 years
 - semi-annual intervals in 6 years
 - semi-annual intervals in 30 months

Evaluate Powers

- Evaluate each power. Round to four decimal places where necessary.
 - 5^4
 - 4^{-2}
 - 1.08^3
 - 0.7^{-3}
 - $\left(1 + \frac{0.05}{12}\right)^{18}$
 - $(1 + 0.045)^{-6}$
- Without calculating, list the following powers in order from least to greatest.
 1.13^2 , 1.005^{-1} , 1.08^2 , 1.2^{-2} , 1.08^{-2}

Exponential Functions

- Determine whether each table of values represents an exponential function. Justify your answer using finite differences, a graph, or common ratios.

a)

x	y
0	0.08
1	0.32
2	0.64
3	0.96
4	1.28

b)

x	y
-2	3
-1	6
0	12
1	24
2	48

- Complete the table of values. Then, sketch a graph for the function.

x	$y = (1.2)^x$
0	
1	
2	
3	
4	
5	
6	
7	