Are there any Homework Questions you would like to see on the board?

p. 446 # 1 - 7 (Also worksheets on Website)

Today's Learning Goal(s):

By the end of the class, I will be able to:

- a) Convert a percent to a decimal.
- b) Calculate the percent of a number.
- c) Evaluate exponential functions for a given value forx.
- d) Convert units of time from weeks to years, months to years, and days to years.

MCF 3MI

8.0 Getting Started – *Unit 8*

Date: // ay 27/19

Ex. 1: Convert each percent to a decimal.

a) 29% b) 107% c) 0.4% d) 45% e) 59% f) 7.5% g) 100% h) 3.65%
$$= 0.29 = 1.07 = 0.004 = 0.45 = 0.59 = 0.075 = 1.0365$$

Ex. 2: Determine each amount.

a)
$$5\% \text{ of } 80$$
 b) $3.8\% \text{ of } 240$ c) $75\% \text{ of } 68$ d) $7.25\% \text{ of } 2000$

$$= 0.05 \times 80 = 0.038 \times 240 = 0.75 \times 68 = 0.0725 \times 2000$$

$$= 9.12 = 51 = 145$$

Calculating a Restaurant Tip Note: 15 % is usually considered the MINIMUM tip percentage. (in your head

e) 15% of 40
$$= (0\% + 5\%) 440$$

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Ex. 3: Express each of the following as a fraction of a year.

a) 2 weeks

b) 4 months

c) 140 days

Ex. 4: Evaluate the following exponential functions. Remember BEDMAS!

a) If
$$f(x) = 4(3)^{2x}$$
, determine $f(-2)$.

$$f(3) = 4(3)^{2(3)}$$

$$= 4(3)^{-4}$$

$$= 4(3)^{4}$$

$$= 4(3)^{4}$$

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b) If
$$f(x) = 3(4)^{2x}$$
, determine $f(3)$ and $f(-3)$.

$$f(3) = 3(4)^{2(3)}$$

$$= 3(4)^{2(3)}$$

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$$= 3(4)^$$

c) If
$$f(x) = 5(2)^{3x}$$
, determine $f(-2)$ and $f(2)$.

$$f(-2) = 5(2)^{3(-2)}$$

$$= 5(2)^{-6}$$

$$= 5(2)^{6}$$

$$= 5(6)$$

$$= 5(6)$$

$$= 5(6)$$

$$= 320$$
d) If $f(x) = 20000(1.02)^{x}$, determine $f(10)$ and $f(20)$.

$$f(10) = 200000(1.02)^{10}$$

$$f(20) = 20000(1.02)^{20}$$

$$= 24379.888$$

$$= 29718.95$$

$$= 29718.95$$

Homework: p. 452 # 5 - 10, 13

Revisit Today's Learning Goals

Today's Homework:

Study for the Unit 7 Summative!! (on Wed.) p. 452 # 5 - 10, 13