

Precalc Warm Up – 9/20/10

Name: _____ Period: _____

1) Is the function $f(x) = 4x - 12$ positive or negative at $x=4$?

2) Is the function $f(x) = 4x - 12$ positive or negative at $x=-2$?

3) Is the function $f(x) = x^2 - 3x - 3$ positive or negative at $x=4$?

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Comparing $f(x)$ and Increasing/Decreasing

SKILL BUILDER

Name: _____ Date: _____ Period: _____

Concept – Students will be able to solve rate problems given two quantities or one quantity and one rate.

Let's get right to the problem solving.

Imagine that a car travels 100 miles in 2 hours. How fast did it travel?

What was the information given?

What were the units given?

What units will we use for the answer?

What operation should we use?

Imagine that a car travels for 3 hours at 60 miles per hour. How far did it travel?

What was the information given?

What were the units given?

What units will we use for the answer?

What operation should we use?

Two kinds of problems:

Unit analysis:

PAIRS PRACTICE

Imagine that a senior sells 45 candy bars in 5 days. How many candy bars did he sell per day?

What was the information given?

What were the units given?

What units will we use for the answer?

What operation should we use?

Imagine that a senior sells 12 candy bars per day for 8 days. How many candy bars did he sell?

What was the information given?

What were the units given?

What units will we use for the answer?

What operation should we use?

INDEPENDENT PRACTICE

- 1) The cafeteria can serve 4 students per minute. How long will it take them to serve 100 students?

- 2) Mr. Monte-Sano can write 4 exam problems per hour. How long will it take him to write an exam with 28 problems?

- 3) A plane flies at 2800 miles in 7 hours. How fast did it fly?

- 4) A bathtub can hold 54 gallons and it takes 6 minutes to fill it. What is the rate of water flowing into the bathtub?

- 5) A car travels on the highway for 65 miles per hour for 3 hours and then for 50 miles per hour for 1.5 hours. How far did the car travel?

Precalc – Exit Slip – 9/20/10

Name: _____

Block: _____

- 1) Imagine that 360 students come through the gate in 45 minutes. At what rate do students come through the gate?
- 2) 400 students need to have their bags checked in the morning and the students get checked at a rate of 8 students per minute. Will all of the students get checked before class starts at 8:15 if the gates open at 7:30?