Lesson 11-5: Choosing the Appropriate Rate

Intro

Given any two measurements, you can write two different rates to compare them.



Example

The recommended rate for a scuba diver to come to the surface is 30 feet per minute. What is the rate in seconds per foot?

Got It?

In some states, you can return bottles for recycling and receive 5¢ per bottle. What is the rate in bottles per dollar?

Example

On your friend's current phone plan, text messages cost 10¢ per message. Which of the following plans offer a better deal than the current plan?





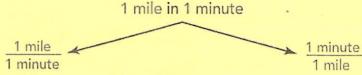
Got It?

Which song download site offers the best deal?
Site A: 3 songs for \$4
Site B: \$3 for 4 songs
Site C: 5 songs for \$5
Site D: 90¢ per song
Example
You get an offer to baby-sit for \$6.25 per hour.
a. How much will you earn if you baby-sit for 5 hours?
b. How many hours will you need to baby-sit at this rate to earn \$100?
Challenge:
An animal moves at a rate of 10 inches per minute. What is the rate in seconds per foot?

Lesson 11-5: Choosing the Appropriate Rate

Intro

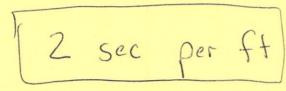
Given any two measurements, you can write two different rates to compare them.

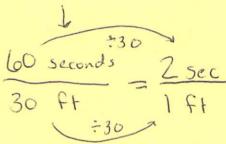


Example

The recommended rate for a scuba diver to come to the surface is 30 feet per minute. What is the rate in seconds per foot?

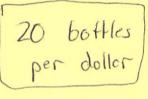
$$\frac{30 \text{ ft}}{1 \text{ minute}} = \frac{30 \text{ ft}}{60 \text{ seconds}}$$





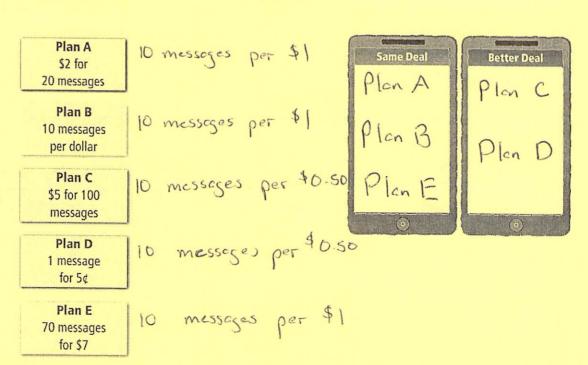
Got It?

in some states, you can return bottles for recycling and receive 5¢ per bottle. What is the rate in bottles per dollar?



Example

On your friend's current phone plan, text messages cost 10¢ per message. Which of the following plans offer a better deal than the current plan?



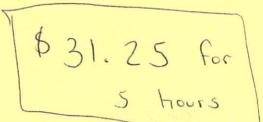
Got It?

Which song download site offers the best deal?

Example

You get an offer to baby-sit for \$6.25 per hour.

a. How much will you earn if you baby-sit for 5 hours?



b. How many hours will you need to baby-sit at this rate to earn \$100?

Challenge:

An animal moves at a rate of 10 inches per minute. What is the rate in seconds per foot?

$$\frac{10 \text{ in}}{1 \text{ max}} = \frac{10 \text{ ft}}{12 \text{ kg}} = \frac{10 \text{ ft}}{720 \text{ sec}} = \frac{720 \text{ sec}}{720 \text{ sec}} = \frac{720 \text{ sec}}{10 \text{ ft}} = \frac{$$