

Problem set - rates

Name: _____ Date: _____

Solve each problem. Show all of your work.

1. A commodity costs \$4.50 per ton.

(a) How much will forty-eight tons cost?

(b) How many tons can you get for \$1,800?

2. A shark swims at eight miles per hour.

(a) How long does it take to swim thirty-six miles?

(b) How far can it swim in 4.5 hours?

3. A fan moves 675 cubic feet of air per minute.

(a) How long does it take to move 5219 cubic feet?

(b) How many cubic feet does it move in eight hours?

4. Thirty tons of aggregate costs \$120.

(a) How much does aggregate cost per ton?

(b) To the nearest ton, how much can you buy for \$750?

5. A train travels 945 miles in 21 hours.

(a) What is its average speed?

(b) How far can it travel in 15 hours?

6. A pump moves 14 gallons of water in 2.1 hours.

(a) To the nearest tenth, what is its delivery rate in gallons per hour?

(b) How long does it take to move eight hundred gallons?

7. At an average speed of 52 miles per hour,

(a) how far can you go in six hours?

(b) how long does it take to go 500 miles, to the nearest tenth of an hour?