

Rates

Date _____ Period _____

- 1) Max swam 100 meters in 3 minutes. What is his speed in meters per minute?
- 2) Harry ran at a speed of 9 miles per hour for 2.5 hours. How far did he run?
- 3) Pam biked 75 km at a speed of 18km/hr. How long did her ride take?
- 4) Matt and Mike are racing to see who can run 500 feet the fastest. Matt ran it 41 seconds and Mike ran it 44 seconds. What is the speed in feet/second for each boy?
- 5) You buy a dozen donuts for \$5.50. What is the unit rate per donut?
- 6) The unit rate for a 3 pack of notebooks is \$1.75. What is the total cost?

- 7) A large bottle of juice (24oz) is \$4.99 and the small bottle (16 oz) is \$3.99. Which bottle is the better deal?
- 8) Mr. Mack's pizza shop charges \$13 for a large pizza that has 8 slices. How much money should he charge if he sells the pizza by the slice?
- 9) A passenger plane made a trip to Las Vegas and back. On the trip there it flew 178 km/h and on the return trip it went 445 km/h. How long did the trip there take if the return trip took two hours?
- 10) A cargo plane made a trip to Jakarta and back. The trip there took six hours and the trip back took five hours. It averaged 69 km/h faster on the return trip than on the outbound trip. Find the cargo plane's average speed on the outbound trip.
- 11) A diesel train left Washington and traveled toward the repair yards. Three hours later a cattle train left traveling at 40 km/h in an effort to catch up to the diesel train. After traveling for nine hours the cattle train finally caught up. Find the diesel train's average speed.
- 12) Darryl left Jessica's house and drove north at an average speed of 28 km/h. Stephanie left one hour later and drove in the same direction but with an average speed of 35 km/h. How long did Darryl drive before Stephanie caught up?

Rates

Date _____ Period _____

1) Max swam 100 meters in 3 minutes. What is his speed in meters per minute?

33.33 meters per minute

2) Harry ran at a speed of 9 miles per hour for 2.5 hours. How far did he run?

22.5 miles

3) Pam biked 75 km at a speed of 18km/hr. How long did her ride take?

4.17 hours

4) Matt and Mike are racing to see who can run 500 feet the fastest. Matt ran it 41 seconds and Mike ran it 44 seconds. What is the speed in feet/second for each boy?

Matt: 12.2 ft/sec, Mike = 11.4 ft/sec

5) You buy a dozen donuts for \$5.50. What is the unit rate per donut?

\$0.46

6) The unit rate for a 3 pack of notebooks is \$1.75. What is the total cost?

\$5.25

7) A large bottle of juice (24oz) is \$4.99 and the small bottle (16 oz) is \$3.99. Which bottle is the better deal?

large bottle

8) Mr. Mack's pizza shop charges \$13 for a large pizza that has 8 slices. How much money should he charge if he sells the pizza by the slice?

\$1.63 or more.

9) A passenger plane made a trip to Las Vegas and back. On the trip there it flew 178 km/h and on the return trip it went 445 km/h. How long did the trip there take if the return trip took two hours?

5 hours

10) A cargo plane made a trip to Jakarta and back. The trip there took six hours and the trip back took five hours. It averaged 69 km/h faster on the return trip than on the outbound trip. Find the cargo plane's average speed on the outbound trip.

345 km/h

11) A diesel train left Washington and traveled toward the repair yards. Three hours later a cattle train left traveling at 40 km/h in an effort to catch up to the diesel train. After traveling for nine hours the cattle train finally caught up. Find the diesel train's average speed.

30 km/h

12) Darryl left Jessica's house and drove north at an average speed of 28 km/h. Stephanie left one hour later and drove in the same direction but with an average speed of 35 km/h. How long did Darryl drive before Stephanie caught up?

5 hours