

Practice: Unit Rates

Date: _____

1) Determine each unit rate.

a) 50 goals scored in 25 games = _____

b) \$400 earned in 40 h = _____

c) \$6.00 for 12 oranges = _____

d) 770 km travelled in 7 h = _____

e) \$5.00 for 10 CDs = _____

f) \$2.37 for 3 kg of apples = _____

g) 9 kg lost in 6 weeks = _____

h) 22 km hiked in 5 h = _____

2) Allan wants to join one of the three online music clubs.

eTunes
\$21.00 for 20 songs

Tunezilla
\$41.65 for 35 songs

Monstersongs
\$54.5 for 50 songs

Which music club is more economical? Justify your answer using unit rates.

3) Twelve hundred litres of water were pumped out of a flooded basement in 8 hours.
What was the unit rate of outflow?

- 4) Mr. and Mrs. Dell recently finished some renovations to their house.
20 m² of carpeting cost \$875.
17 m² of hardwood flooring cost \$750.
Which flooring is more expensive per square metre? Justify your answer using unit rates.
- 5) A 12-pack of pop costs \$2.99. The same pop cost \$0.75 per can in a vending machine.
Is this a fair price? Support your answer mathematically.
- 6) Sobey's offers prices on different sized cans of orange juice.
Which is the best buy? Show your work.
- A. 300 mL for \$1.59 B. 500 mL for \$2.39 C. 750 mL for \$3.49

Answers:

- 1) a) 2 goals/game b) \$10/hr c) \$0.50/orange d) 110 km/h
e) \$0.50/CD f) \$0.79/apple g) 1.5 kg/week h) 4.4 km/h
- 2) e-Tunes is the most economical music club at \$1.05/song.
- 3) 150 L/h
- 4) The hardwood is more expensive at \$44.12/m².
- 5) No. The can from the machine costs 3 times as much as the cans in the 12-pack.
- 6) Can C.