

LESSON: A GIGABYTE OF MUSIC, HOW MUCH IS THAT?

Answer Key

- 1b. (1 mile / 5280 feet) = (5280 feet / 1 mile) = 1
- c. (50 CDs / \$19.98) = (\$19.98 / 50 CDs) = 1
- d. (1 mile / 5280 feet) = (5280 feet / 1 mile) = 1
- e. (15 prerecorded songs / \$15.95) = (\$15.95 / 15 prerecorded songs) = 1
- 2a. 1 km = 1000 m
- 1 km / 1000 m = 1000 m / 1000 m
- 1 km / 1000 m = 1
- b. 1 km exactly equals 1000 m and x / x = 1 if x does not equal zero.
- c. 1 CD might not cost exactly \$10.50.
- d. The numerator and denominator of a fraction must represent quantities that are exactly equal for the fraction to equal exactly 1.
- 3a. Change (1 cm / \$2) to (\$2 / 1 cm), \$500
- b. Change (1 CD / 80 min.) to (80 min. / 1 CD), 160 min.
- 4a. 12.5 CDs
- b. 31. 25 CDs
- c. 114.2857... or about 114 minutes

- 5. 6.3 gigabytes, 720 min.
- 6. About 128 songs
- 7. 85.71 CDs
- 8. \$150,000,000 (Most people do not have \$150 million to pay the fines.)