Name: .... Class: ....

Unit prices with customary unit conversions

1. A 1 hour ride in a sky scream rooler coaster cost $ 26.00 what is the price per minutes Write your answer to the nearest cent.

2. The cost of 10 tons of granite sand is $ 400.00. What is the price per pound?

3. A 20 quart jug of water costs $ 11.75. What is the price per gallon?

mathskills4kids

Name: .... Class: ....

Unit prices with customary unit conversions

1. An hour ride in a sky scream rooler coaster cost $ 26.00. What is the price per minute? Write your answer to the nearest cent.

1 hour = 60 minutes

convert number of hours to minutes

if 1 hour = 60 minutes

therefore, 1 hour ride = 60 minutes ride

to find the price per minute, divide the total price by 60

$$= \$ 26.00 \div 60 = \frac{\$ 26.00}{60}$$

therefore, the price per minute= $ 0.43

2. The cost of 10 tons of granite sand is $ 400.00. What is the price per pound?

2000 pounds = 1 ton

convert tons to pounds

if 1 ton = 2000 pounds

therefore, 10 tons = $\frac{2000 \text{ pounds x 10 tons}}{1 \text{ ton}}$ = 20 000 pounds

to find the price per pound, divide the total price by 20 000

$$= \$400 \div 20\ 000 = \frac{\$ 400}{20\ 000}$$

therefore, the price per pound = $ 0.02

3. A 20 quart jug of water cost $ 11.75. What is the price per gallon?

convert from quart to gallon

if 4-quart = 1 gallon

therefore, 20 quart = $\frac{1 \text{ gallon x 20 quart}}{4 \text{ quart}}$ = 5 gallons

to find the price per gallon divide the total cost by 5

$$= \$11.75 \div 5 = \frac{\$ 11.75}{5}$$

therefore, the price per gallon = $ 2.35