

Unit Rates and Better Buys

Grade 6 math · Worksheet · Standards: 6.RP.A.2, 6.RP.A.3b

Name: _____ Date: _____ Class: _____

These 20 problems build rate language, finding unit rates with division, reading double number lines and rate tables, and comparing unit prices and speeds.

The last six problems are multi-step word problems about fuel, pay and production. They train standards 6.RP.A.2 and 6.RP.A.3b.

Standards: 6.RP.A.2, 6.RP.A.3b · **Level:** Grade 6

Problem 1 Writing Rates (easy)

Write each situation as a rate using the word “per”: (a) 135 miles in 3 hours (b) \$14 for 4 pounds of grapes.

Problem 2 Finding Unit Rates (easy)

Find the unit rate. (a) 96 miles in 6 hours (b) 63 words typed in 7 minutes.

Problem 3 Unit Price of Notebooks (easy)

A pack of 6 notebooks costs \$10.50. What is the price of one notebook?

Problem 4 Reading a Double Number Line (easy)

A balloon climbs at a constant rate. The double number line shows it rises 36 feet in 4 seconds. (a) Find the unit rate. (b) How many feet does it rise in 7 seconds?



Seconds (top) and feet (bottom).

Problem 5 Rate Table (easy)

A bakery table shows cups of flour for loaves of bread. (a) How many cups of flour does 1 loaf need? (b) How many cups for 12 loaves?

Loaves	2	5	8
Flour (cups)	9	22.5	36

Cups of flour needed for each number of loaves.

Problem 6 Two Unit Rates (medium)

A faucet fills 45 gallons in 18 minutes. Find (a) the gallons per minute and (b) the minutes per gallon.

Problem 7 Comparing Cereal (medium)

Cereal A is 14 ounces for \$4.20. Cereal B is 18 ounces for \$5.04. Which is the better buy?

Problem 8 Jogging Speed (medium)

A jogger covers 12 miles in 1.5 hours. What is the speed in miles per hour?

Problem 9 Distance at Constant Speed (medium)

A bus travels at a constant 48 miles per hour for 3.5 hours. How far does it go?

Problem 10 Copier Time (medium)

A copier makes 24 copies per minute. How many minutes does it need for 360 copies?

Problem 11 Three Juice Sizes (medium)

Juice comes in three sizes, shown on the price tags. Which size is the best buy?

64 oz \$3.20	96 oz \$4.56	128 oz \$6.72
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Three sizes of the same juice.

Problem 12 Hourly Pay (medium)

Kayla earns \$87.50 for 7 hours of work at a garden center. (a) Find her hourly rate. (b) How much does she earn in 30 hours at the same rate?

Problem 13 Is the Rate Constant? (medium)

Each table shows the miles traveled after some hours. Decide which table shows a constant rate of speed, and give that speed.

Hours	2	4	5
Miles	30	60	80

Table A.

Hours	2	3	6
Miles	110	165	330

Table B.

Problem 14 Comparing Hikers (medium)

Ava hikes 15 miles in 4 hours. Ben hikes 22 miles in 6 hours. Who hikes faster?

Problem 15 Fuel Economy (hard)

Car A drives 330 miles on 11 gallons of gas. Car B drives 266 miles on 7 gallons. (a) Which car gets more miles per gallon, and by how much? (b) How many gallons does Car B need for 570 miles?

Problem 16 Pencil Packs (hard)

A pack of 24 pencils costs \$7.20 and a pack of 36 pencils costs \$9.90. A school needs exactly 144 pencils. How much does the school save by buying the better-priced packs instead of the other packs?

Problem 17 Draining Pools (hard)

Pool A holds 475 gallons and drains at 12.5 gallons per minute. Pool B holds 399 gallons and drains at 10.5 gallons per minute. How long does each pool take to empty? Which finishes first?

Problem 18 Road Trip Legs (hard)

A family drives 4 hours at 62 miles per hour, then 2.5 hours at 56 miles per hour. (a) How far do they drive in all? (b) How many more miles is the first leg than the second?

Problem 19 Food Truck Rush (hard)

During a lunch rush a food truck sells 45 tacos in 30 minutes. At that constant rate, how much money does it collect for tacos sold in 3.5 hours if each taco costs \$3.25?

Problem 20 Comparing Jobs (hard)

Job A pays \$13.40 per hour for 28 hours a week. Job B pays \$11.50 per hour for 33 hours a week. Which job pays more per week, and how much more?