

# Comparing Rates

Use unit rates to compare two rates that have the same units of measurement.

Daniel painted 9 planks in 6 minutes. Meredith painted 22 planks in 11 minutes. Who painted at a faster rate?

Write each rate as a unit rate.

Daniel's Rate:  $\frac{9 \text{ planks}}{6 \text{ min}}$

$$= \frac{9 \text{ planks} \div 6}{6 \text{ min} \div 6}$$

$$= \frac{1.5 \text{ planks}}{1 \text{ min}}$$

Meredith's Rate:  $\frac{22 \text{ planks}}{11 \text{ min}}$

$$= \frac{22 \text{ planks} \div 11}{11 \text{ minutes} \div 11}$$

$$= \frac{2 \text{ planks}}{1 \text{ min}}$$

Since 2 is greater than 1.5, Meredith is the faster painter. The faster rate is 22 planks in 11 min.

Find each unit rate and determine which rate is greater.

1. 51 hits on Jon's website in 3 h or 96 hits on Shana's website in 6 h

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2. 330 mi on 15 gal or 240 mi on 10 gal

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3. 90 breaths in 6 min or 112 breaths in 8 min

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Find each unit price and determine which is a better buy.

4. 20 gallons of gas for \$66.00 or 25 gallons of gas for \$81.25

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5. **Writing to Explain** Earl and Mia danced in a charity fundraiser. Earl raised \$275 when he danced for 5 hours. Mia raised \$376 when she danced for 8 hours. Which dancer earned more for each hour danced? Explain how you found your answer.

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