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What Ratio Is It?

P-RR 1





Name:

Date:

Converting to a Unit Rate

P-RR 2





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P-RR 3

Date:

Using Unit Rates to Compare



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What Ratio Is It?

P-RR 1





Name:

P-RR 2

Date:

Converting to a Unit Rate

Instructions: Convert each of these rates into a unit rate by dividing the top number by the bottom number. Don't forget the units! $\frac{1}{6} \frac{120}{\text{hours}} = \frac{20}{1} \frac{\text{miles}}{\text{hour}}$ $\frac{2}{2} \frac{36}{2} \frac{\text{push-ups}}{\text{minutes}} = \frac{18}{1} \frac{\text{push-ups}}{\text{minute}}$ $120 \div 6 = 20$ 36 ÷ 2 = 18 $\frac{45}{3} \frac{\text{dollars}}{\text{hours}} = \frac{15}{1} \frac{\text{dollars}}{\text{hour}} \qquad 4 \frac{250}{5} \frac{\text{km}}{\text{hours}} = \frac{50}{1} \frac{\text{km}}{\text{hour}}$ 3 $45 \div 3 = 15$ $250 \div 5 = 50$ 5 $24 \div 12 = 2$ $180 \div 6 = 30$ $\frac{100 \text{ meters}}{10 \text{ second}} = \frac{10 \text{ meters}}{1 \text{ second}} \qquad \boxed{8} \quad \frac{18}{9} \text{ apples} = \frac{2}{1} \text{ apples} \text{ day}$ 7 $100 \div 10 = 10$ $18 \div 9 = 2$ $\frac{10}{2} \quad \frac{15}{2} \quad \text{pies} \\ \frac{7.5}{1} \quad \text{pies} \\ \frac{7.5}{1} \quad \text{day}$ $\frac{25}{10} \frac{\text{km}}{\text{hours}} = \frac{2.5}{1} \frac{\text{km}}{\text{hour}}$ 9 $25 \div 10 = 2.5$ $15 \div 2 = 7.5$



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P-RR 3

Using Unit Rates to Compare



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Ratios	&	Rates
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1 What is the ratio of circles to stars? Use the ratio symbol (:) in your answer.	2 What is the ratio of birds to fish? Use the ratio symbol (:) in your answer.
3 If there are 7 girls and 8 boys on the school's track team, what is the ratio of girls to boys? Write your answer in three different ways.	4 If a sports field is 100 meters long and 40 meters wide, what is the ratio of its width to its length? Write your answer in three different ways.
5 If a car travels 120 miles in 2 hours, what is its rate of speed expressed as a unit rate ?	6 If a plane travels 900 km in 3 hours, what is its rate of speed expressed as a unit rate ?
7 Tim has a job that pays \$50 for 5 hours of work. Jane has a job that pays \$24 for 2 hours of work. Who has the higher rate of pay? (<i>Hint: convert to unit rates</i>)	Son can do 64 push-ups in 4 minutes. Paul can do 45 push-ups in 3 minutes. Whose rate is faster? (<i>Hint: convert to unit rates</i>)

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See Video for step-by-step solutions to each problem.

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