Practice 4-2

Unit Rates and Proportional Reasoning

Write the unit rate for each situation.

1. travel 250 mi in 5 h

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2. earn $75.20 in 8 h

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3. read 80 pages in 2 h

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4. type 8,580 words in 2 h 45 min

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5. complete $\frac{3}{4}$ of a puzzle in $\frac{7}{8}$ h

_____

6. drink $\frac{4}{5}$ L in $\frac{1}{4}$ h

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Find each unit price. Then determine the better buy.

7. paper: 100 sheets for $.99
         500 sheets for $4.29

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8. peanuts: 1 lb for $1.29
         12 oz for $.95

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9. crackers: 15 oz for $1.79
         12 oz for $1.49

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10. apples: 3 lb for $1.89
         5 lb for $2.49

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11. mechanical pencils: 4 for $1.25
         25 for $5.69

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12. bagels: 4 for $.89
         6 for $1.39

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13. a. Yolanda and Yoko ran in a 100-yd dash. When Yolanda
crossed the finish line, Yoko was 10 yd behind her. The girls
then repeated the race, with Yolanda starting 10 yd behind the
starting line. If each girl ran at the same rate as before, who
won the race? By how many yards?

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b. Assuming the girls run at the same rate as before, how far
behind the starting line should Yolanda be in order for the
two to finish in a tie?

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