

# Identify a rate as a ratio of unlike units

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| NAME | DATE | SCORE<br><b>/ 10</b> |
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- 1** Is "\$24 for 6 kilograms of apples" a rate, and why?
- ☐ Yes: it compares dollars with kilograms    ☐ No: dollars and kilograms cannot be compared  
☐ Yes: it compares dollars with apples    ☐ No: it is not for 1 kilogram

- 2** Is "70 kilometres on 2 litres of gas" a rate, and why?
- ☐ No: kilometres and litres cannot be compared    ☐ Yes: it compares kilometres with litres  
☐ No: it is not for 1 litre    ☐ Yes: it compares kilometres with gas

- 3** Is "40 cm of red ribbon to 45 cm of blue ribbon" a rate, and why?
- ☐ Yes: it compares red ribbon with blue ribbon  
☐ No: red ribbon and blue ribbon cannot be compared  
☐ No: both amounts are in centimetres    ☐ Yes: any comparison of two amounts is a rate

- 4** Is "20 litres of water in 5 minutes" a rate, and why?
- ☐ Yes: it compares litres with minutes    ☐ Yes: it compares litres with water  
☐ No: it is not for 1 minute    ☐ No: litres and minutes cannot be compared

- 5** Is "\$90 for 5 hours of work" a rate, and why?
- ☐ Yes: it compares dollars with work    ☐ No: it is not for 1 hour  
☐ No: dollars and hours cannot be compared    ☐ Yes: it compares dollars with hours

- 6** Is "4 cups of juice to 6 cups of water" a rate, and why?
- ☐ No: both amounts are in cups    ☐ No: juice and water cannot be compared  
☐ Yes: any comparison of two amounts is a rate    ☐ Yes: it compares juice with water

**7**

Is "35 kilograms of dog food to 15 kilograms of cat food" a rate, and why?

- ☐ Yes: any comparison of two amounts is a rate    ☐ Yes: it compares dog food with cat food  
☐ No: both amounts are in kilograms    ☐ No: dog food and cat food cannot be compared
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**8**

Is "6 kilometres of walking to 3 kilometres of biking" a rate, and why?

- ☐ Yes: any comparison of two amounts is a rate    ☐ Yes: it compares walking with biking  
☐ No: walking and biking cannot be compared    ☐ No: both amounts are in kilometres
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**9**

Is "28 litres of water in 4 minutes" a rate, and why?

- ☐ No: it is not for 1 minute    ☐ Yes: it compares litres with water  
☐ No: litres and minutes cannot be compared    ☐ Yes: it compares litres with minutes
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**10**

Is "20 cm of red ribbon to 10 cm of blue ribbon" a rate, and why?

- ☐ Yes: it compares red ribbon with blue ribbon    ☐ No: both amounts are in centimetres  
☐ Yes: any comparison of two amounts is a rate  
☐ No: red ribbon and blue ribbon cannot be compared

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**1** Yes: it compares dollars with kilograms

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**3** No: both amounts are in centimetres

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**5** Yes: it compares dollars with hours

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**7** No: both amounts are in kilograms

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**9** Yes: it compares litres with minutes

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**2** Yes: it compares kilometres with litres

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**4** Yes: it compares litres with minutes

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**6** No: both amounts are in cups

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**8** No: both amounts are in kilometres

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**10** No: both amounts are in centimetres