# Ratios

*Problems about ratios.*

**Problem 1** *A certain shade of green paint is made by mixing* 5 *parts of yellow paint with* 9 *parts of blue paint. How many parts of yellow paint would you need to mix with* 1 *part blue paint?*

*You would use* $\underset{\text{given}}{\boxed{\frac{5}{9}}}$ *parts yellow paint.*

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**Problem 2** *A certain shade of green paint is made by mixing* 12 *parts of yellow paint with* 4 *parts of blue paint. How many parts of blue paint would you need to mix with* 1 *part yellow paint?*

*You would use* $\underset{\text{given}}{\boxed{\frac{4}{12}}}$ *parts blue paint.*

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**Problem 3** *Two kayakers are traveling at a constant speed. Doug travels* 300 *meters in* 8 *minutes, while Phil travels* 350 *meters in* 9 *minutes. Who is traveling faster?*

***Multiple Choice:***

(a) *Phil travels faster, because he covers about* 39 *meters per minute.* ✓

(b) *Doug travels faster, because he covers about* 38 *meters per minute.*

(c) *Phil travels faster, because he travels farther.*

(d) *Doug travels faster, because he travels for fewer minutes.*

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**Problem 4** *Three snails are moving at a constant rate.*

- *Snail A travels* 0 *inches in* 4 *minutes.*
- *Snail B travels* 4 *inches in* 0 *minutes.*

Author(s): Bart Snapp and Brad Findell and Jenny Sheldon

- *Snail C travels* 0 *inches in* 0 *minutes.*

*How fast does each snail travel one inch? Select all correct answers below.*

***Select All Correct Answers:***

(a) *Snail A travels* 0 *inches in* 1 *minute.* ✓

(b) *Snail B travels* 4 *inches in* 1 *minute.*

(c) *Snail C travels* 0 *inches in* 1 *minute.*

(d) *We do not know how far Snail A travels in* 1 *minute.*

(e) *We do not know how far Snail B travels in* 1 *minute.* ✓

(f) *We do not know how far Snail C travels in* 1 *minute.* ✓

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**Problem 5** *A certain punch is made by mixing* 4 *cups of fruit juice with* 5 *cups of sparkling water. Fill in the table below to find how many cups of fruit juice you will need to mix with* 19 *cups of sparkling water to get a punch in the same recipe.*

| | | |
|---|---|---|
| *4* | $\boxed{\frac{4}{5}}$ given | $\boxed{\frac{76}{5}}$ given |
| *5* | *1* | *19* |
| *9* | $\boxed{1.8}$ given | $\boxed{34.2}$ given |

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