

# Why Did the Writer Enjoy Living in a Basement?

Do each exercise and find your answer to the right. Write the letter of the answer in the box containing the number of the exercise. If the answer has a ●, shade in the box instead of writing a letter in it.

I. Write each ratio as a fraction in simplest form.

- |   |                 |
|---|-----------------|
| ① 7 to 12   | ② 9:4           |
| ③ 8 to 10   | ④ 20 to 12      |
| ⑤ 25:50   | ⑥ 6 out of 15   |
| ⑦ 80 to 60  | ⑧ 35 out of 100 |
| ⑨ 78 out of 780   | ⑩ 90:30         |
| ⑪ The ratio of wins to losses for a team with 60 wins and 90 losses.                          |                 |
| ⑫ The ratio of girls to boys in a 7th grade class with 300 girls and 250 boys.                |                 |
| ⑬ The ratio of red to blue for a purple paint made by mixing 24 oz of red with 28 oz of blue. |                 |
| ⑭ The ratio of blue to red for a purple paint made by mixing 24 oz of red with 28 oz of blue. |                 |

Answers:

- |                  |                  |
|------------------|------------------|
| Ⓗ $\frac{8}{5}$  | Ⓙ $\frac{4}{5}$  |
| Ⓐ $\frac{1}{10}$ | ● $\frac{4}{3}$  |
| ● $\frac{6}{5}$  | Ⓓ $\frac{3}{10}$ |
| Ⓐ $\frac{7}{12}$ | Ⓢ $\frac{1}{2}$  |
| Ⓙ $\frac{7}{20}$ | Ⓛ $\frac{3}{1}$  |
| Ⓐ $\frac{7}{6}$  | Ⓔ $\frac{9}{4}$  |
| ● $\frac{5}{3}$  | ⓲ $\frac{6}{7}$  |
| Ⓔ $\frac{2}{3}$  | Ⓡ $\frac{2}{5}$  |

II. Write the ratio of the two measurements in the unit indicated (a *unit rate*).

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| ⑮ A car traveled 300 miles on 15 gallons of gas. (miles per gallon)                  |
| ⑯ Ima Smurf typed 120 words in 3 minutes. (words per minute)                         |
| ⑰ Dr. Cranium traveled 2,800 miles in 5 hours. (miles per hour)                      |
| ⑱ A gear revolved 960 times in 30 minutes. (revolutions per minute)                  |
| ⑲ Gloria Trench earned \$144 in 8 hours. (dollars per hour)                          |
| ⑳ Roger Bannister ran 5,280 feet in 4 minutes. (feet per second) (HINT: 4 min = ? s) |

Answers:

- |      |       |
|------|-------|
| Ⓜ 48 | Ⓑ 560 |
| Ⓒ 32 | Ⓛ 22  |
| Ⓙ 15 | ● 20  |
| Ⓦ 40 | Ⓝ 520 |
| Ⓢ 18 | Ⓔ 36  |

13	3	7	16	9	5	15	1	4	17	11	19	8	12	18	2	20	10	14	6
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