Codeyoung

Advanced WS_G8_Direct and Inverse Proportion

1. A hybrid car can go 400 miles on 8 gallons of gas. How far can the car take you with 1 gallon of gas?

2. Suppose the width of a soccer field 60 meters and the length is 100 meters. What is the ratio in simplest form of the length to the area of the field?

3. A geometry test has 30 questions. 6 of the 30 questions are based on chapter 5. What is the ratio of questions from chapter 5 to the other questions on the test?

4. Suppose a math class starts at the beginning of the school year with 12 boys and 8 girls. However, after school resumes in January, 6 new boys and 4 new girls came to the class. Is the ratio of boys to total number of students in the class still the same?

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5. What should be added to both terms of 17 : 29 so that the ratio becomes 5 : 8?

6. 12. What should be subtracted from both the terms of 19 : 39 So that the ratio becomes 3 : 7?

7. 13. The angles of a triangle are in the ratio 3 : 5 : 10. Find the angles.

8. If $(m + 3n) : (5m - 2n) = (4m + n) : (8m - 4n)$, where $m \neq 0$, $n \neq 0$ then find n : m.

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