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MATHS

BOOKS - CHETANA MATHS (MARATHI ENGLISH)

Ratio and Proportion

Example

1. Convert the following ratio into percentage $\frac{7}{16}$.

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2. The length of a rectangular field is 1.2 km and its breadth is 400 meter.Find the ratio of length to breadth.

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3. If $\frac{a}{b} = \frac{7}{3}$ then find the value of the ratio $\frac{a-b}{b}$.

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4. If $\frac{a}{b} = \frac{7}{3}$ then find the value of $\frac{2a^2 + 3b^2}{2a^2 - 3b^2}$.

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5. Compare the following ratios: $\frac{\sqrt{5}}{3}, \frac{3}{\sqrt{7}}$.

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6. Find the following ratios.The ratio of circumference of circle with radius r to its

area.

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Exercise

1. The ratio of two numbers is $5:7$.If 40 is added in each number,then the ratio becomes $25:31$.Find the number.

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2. If $\frac{a+2b}{a-2b}=13$ then find the value of $\frac{a}{b}$.

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3. If 10 is the geometric mean of 25 and x,then find the value of x.

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4. a,b,c are in continued proportion.If a=3 and c=27 then find b.

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5. If $\frac{x}{y} = \frac{4}{5}$ then find the value of the ratio $\frac{3x^2 + y^2}{3x^2 - y^2}$.

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6. Which number should be subtracted from 7,12 and 18 such that the resultant numbers are in continued proportion?

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7. If the weight of 10 sheets of thick paper is 40 grams,How many sheets of the same paper would weight 800 grams?

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8. If 15 workers can build a wall in 48 hours.How many workers will be required to do the same work in 72 hours?

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