shiksha

IMPORTANT MATHEMATICS FORMULAE

For Success in Engineering Entrance Exams

Question 1

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Rate, Ratios and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 2 - Rate, Ratios and Variations

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(a) $\frac{x}{3} = \frac{4}{6}$

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(h) $\frac{x}{3} = \frac{4}{7}$

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Answer - Rate, Ratios and Variations

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Question 4 - Ratio, Proportion and Variations

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(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

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Answer - Ratio, Proportion and Variations

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Answer - Ratio, Proportion and Variations

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Answer - Ratio, Proportion and Variations

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Question 8 - Ratio, Proportion and Variations

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Question 10 - Ratio, Proportion and Variations

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Answer - Ratio, Proportion and Variations

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(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 3 - Ratio, Proportion and Variations

Question 3

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 4 - Ratio, Proportion and Variations

Question 4

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 5 - Ratio, Proportion and Variations

Question 5

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 6 - Ratio, Proportion and Variations

Question 6

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 7 - Ratio, Proportion and Variations

Question 7

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 8 - Ratio, Proportion and Variations

Question 8

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 9 - Ratio, Proportion and Variations

Question 9

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 10 - Ratio, Proportion and Variations

Question 10

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 1

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 2 - Ratio, Proportion and Variations

Question 2

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 3 - Ratio, Proportion and Variations

Question 3

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \frac{3}{2}$

(f) $x = \frac{10}{3}$

(g) $x = \frac{6}{5}$

(h) $x = \frac{12}{7}$

(i) $x = \frac{10}{3}$

(j) $x = \frac{20}{9}$

Question 4 - Ratio, Proportion and Variations

Question 4

Find the value of x in the following proportion:

(a) $\frac{x}{3} = \frac{4}{6}$

(b) $\frac{x}{5} = \frac{3}{15}$

(c) $\frac{x}{2} = \frac{3}{4}$

(d) $\frac{x}{3} = \frac{2}{9}$

(e) $\frac{x}{4} = \frac{3}{8}$

(f) $\frac{x}{5} = \frac{2}{3}$

(g) $\frac{x}{2} = \frac{3}{5}$

(h) $\frac{x}{3} = \frac{4}{7}$

(i) $\frac{x}{4} = \frac{5}{6}$

(j) $\frac{x}{5} = \frac{4}{9}$

Answer - Ratio, Proportion and Variations

(a) $x = 2$

(b) $x = 1$

(c) $x = \frac{3}{2}$

(d) $x = \frac{2}{3}$

(e) $x = \fr

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