

Class: VII

Teacher: Deep Ti

Subject: Mathematics

Topic: Chapter - Exponents

chapter - Ratio and proportion

Revision questions:

Quest. 1. Express the following ratios in its lowest form

(i) $\frac{1}{4} : \frac{2}{9}$

(ii) $\frac{1}{3} : \frac{1}{4} : \frac{1}{2}$

(iii) $2\frac{3}{4}$ hours : 30 minutes

(iv) $6\frac{2}{5}$ years : 15 months

Quest. 2 Evaluate:

(i) $\left(\frac{2}{3}\right)^4 \times \left(\frac{2}{3}\right)^6 \times \left(\frac{2}{3}\right)^{-12}$

(ii) $\left(\frac{4}{7}\right)^9 \div \left(\frac{4}{7}\right)^6$

(iii) $\frac{2^4 \times 2^3 \times 2^9 \times 3^4 \times 3^9}{2^{15} \times 3^{16}}$

(iv) $2^0 + 3^3 + 2^{-1} + 5^2$

Quest. 3 Simplify:

(i) $\frac{(2^3)^2 \times (-5)^2}{(5^2)^2 \times 16}$

(ii) $\frac{(16)^2 \times (35)^3}{49 \times (3^2)^3}$

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Quest 4. Divide ₹ 3726 among A, B, C in the ratio $\frac{1}{3} : \frac{1}{4} : \frac{1}{6}$

Quest 5. Two numbers are in the ratio 7:4. If their sum is 440, find the numbers.

Quest 6. A sum of money is divided between Riya and Seema in the ratio 5:7. If Riya's share is ₹ 665. find the amount.

Quest 7. Check whether the following numbers are in proportion or not:

(i) 8, 12, 18, 24

(ii) $11\frac{1}{3}$, $9\frac{1}{3}$, $8\frac{1}{2}$, 7

Quest 8. Find the value of x in each of the following:

(i) $5.6 : 3.5 :: x : 1.25$

(ii) $\frac{2}{3} : \frac{4}{7} :: 1\frac{5}{6} : x$

Quest 9. Simplify: (i) $(2^5 \times 2^4) \div 2^3$

(ii) $\frac{7^6}{7^4} \div \frac{11^9}{11^8} \times \frac{6^7}{6^8}$

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