

Himalaya International School
Subject -Mathematics
Class- VI
Chapter – 8(Ratio and Proportion)
Chapter –11 (Practical Geometry)
Practice Assignment- 3

Q1. The simplest form of the ratio 6:18 is ____.

- (a) 12:36 (b) 3:9 (c) 4:12 (d) 1:3

Q2. A perpendicular bisector makes an angle of ____.

- (a) 50° (b) 90° (c) 45° (d) 180°

Q3. Which of the following is in proportion?

- (a) $2:5=1:5$ (b) $7:10=5:8$ (c) $2:10=1:5$ (d) $8:5 =2:3$

Q4. The length of each line segment on drawing a perpendicular bisector for $AB= 4.8$ cm is ____.

- (a) 2.4 cm (b) 2.6 cm (c) 5 cm (d) 5.5 cm

Q5. If $p : 10 = 2:20$, then the value of p is equal to ____.

- (a) 40 (b) 30 (c) 10 (d) 1

Q6. Draw any line CD. Mark a point S on it . Draw a perpendicular to CD through S, using ruler and compass.

Q7. Mia drew 12 hearts and 40 smileys. What is the ratio of hearts to all shapes?

Q8. Construct $AC = 7$ cm . Cut off $AB =2.5$ cm from it . What is the measure of BC?

Q9. The ratio of boys and girls in a class is 5:4. If the strength of the class is 45, find the number of boys and girls in the class.

Q10. Construct : A circle of diameter 9 cm.

Q11. The first three terms of a proportion are 12, 108 and 11 respectively. Find out the fourth term.

Q12. Construct the perpendicular bisector of $XY = 11$ cm.

Q13. Divide ₹ 500 between Disha and Drishti in the ratio 2:3

Q14. Construct the following angles using a ruler and a compass.

(a) 120° (b) 75°

Q15. A man's monthly income is ₹ 1300. He spends ₹850. Find the ratio of his

(a) Expenditure to Income (b) Saving to Income

(c) Saving to Expenditure

Q16. Construct a right angle and then bisect it. Write the steps of constructions

Q17. A pack of biscuits costs ₹36. If there are 9 biscuits in the packet, find the cost of each biscuit.

Q18. Draw $\angle ABC = 80^\circ$ and bisect it.

Q19. Basmati rice is a staple in the Indian diet. The fiber in basmati rice is soluble, meaning it adds bulk and helps move waste along the digestive tract. The basmati rice is available in 25 kg packs and 15 kg packs. The 25 kg pack costs ₹2000. What will be the cost of the 15 kg pack?

Q20. The circle has an infinite number of lines of symmetry, making it a fundamental shape in understanding symmetry and patterns.

Draw a circle of radius 7 cm. Draw any two chords. Construct the perpendicular bisector of those chords. Where do they meet?