

# INTERNATIONAL INDIAN SCHOOL BURAIDAH

## Worksheet for the Academic Year 2026-27

CLASS: IX

SUBJECT: Mathematics

DATE: 04/05/26

### LESSON 3 : The world of Numbers

1. Express  $\frac{-3}{2}$  as a rational number with i) numerator 15 ii) denominator -8
2. Compare  $\frac{5}{-12}$  and  $\frac{-3}{8}$
3. Arrange in ascending order:  $\frac{3}{4}, \frac{-5}{6}, \frac{7}{8}$
4. Evaluate :  $\left| \frac{-2}{11} \right|, \left| 3-5 \left( \frac{-5}{7} \times \frac{14}{3} \right) \right|$
5. Check whether  $\left| \frac{6}{7} \times \frac{-14}{29} \right| = \left| \frac{6}{7} \right| \times \left| \frac{-14}{29} \right|$
6. Represent  $\frac{-4}{5}$  and  $\frac{3}{8}$  on separate number line.
7. Evaluate:  $-\frac{3}{5} + \frac{7}{-20} + \frac{-11}{15}$
8. Subtract  $\frac{-9}{16}$  from  $\frac{5}{24}$
9. Simplify :  $25 \times \left(\frac{-9}{5}\right)^{\frac{30}{18}}$
10. Evaluate :  $\left[\frac{4}{15} \div \left(\frac{-2}{3}\right)\right] \div \left(\frac{-7}{9}\right)$
11. Evaluate:  $\left(\frac{1}{3} + \frac{3}{4}\right) \times \left(\frac{6}{5} + \frac{2}{3}\right)$
12. Write five rational numbers between  $\frac{-5}{6}$  and  $\frac{3}{8}$
13. Write five rational numbers between x and |x|, where  $|x| = \frac{-1}{5}$
14. Find the decimal form of  $\frac{5}{16}$  and  $\frac{-17}{9}$
15. Express the following in p/q form : i)  $0.25$  ii)  $1.\overline{237}$ , iii)  $3.0\overline{65}$  iv)  $1.2\overline{34}$
16. Express  $0.6 + 0.\overline{7} + 0.4\overline{7}$  in the form p/q,  $q \neq 0$
17. Represent  $\sqrt{7}$  on number line.
18. Prove that  $\sqrt{11}$  is an irrational number.
19. Write whether  $\frac{2\sqrt{45} + 3\sqrt{20}}{2\sqrt{5}}$  is a rational or an irrational number.

20. Without actually performing the long division, state whether the following rational numbers will have a terminating decimal expansion or a non-terminating repeating decimal expansion.

i)  $\frac{64}{455}$     ii)  $\frac{15}{1600}$     iii)  $\frac{6}{15}$     iv)  $\frac{55}{99}$     v)  $\frac{77}{210}$