

Practice question paper – maths – first unit exam – June 2020

Second question paper

13 questions – 40 minutes

- 1) Are all integers rational numbers? Is -5 a rational number. Please explain.
- 2) Prove that  $8/(-3)$  is the same as  $-8/3$
- 3) On a single number line, please represent the following rational numbers:  
 $\frac{3}{4}$   
 $4\frac{3}{4}$   
 $-2\frac{3}{4}$   
 $-1\frac{1}{4}$   
 $2\frac{1}{2}$
- 4) Define a rational number in 'standard form'.
- 5) Compare the following rational number and find the lower of the pair  
 $4/-9$  and  $-16/36$   
  
 $-2/7$  and  $\frac{1}{2}$
- 6) find 5 rational numbers between  $-5/3$  and  $8/-7$
- 7) list 3 rational numbers between -2 and -1
- 8) find the solution to the following:  
 $-8/19 + (-2)/57$   
  
 $-6/13 - (7/-15)$   
  
 $-2\frac{1}{9} + (-6)$

9)  $-\frac{7}{12}$  divide by  $(-\frac{2}{13})$

$\frac{3}{13}$  divide by  $(-\frac{4}{65})$

10) Simplify the following

$(-18\frac{1}{3} \times 2\frac{8}{11}) - (4\frac{5}{7} \times 2\frac{1}{3})$

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 $\frac{3}{5} + -\frac{9}{10} + (-\frac{3}{5})$

11) The product of two rational numbers is the reciprocal of  $-\frac{4}{15}$ . If one of the rational numbers is  $\frac{3}{2}$ , then find the additive inverse of the other rational number?

12)  $\frac{5}{8}$  is a rational number between  $\frac{1}{2}$  and  $\frac{3}{4}$ . True or false?

13) from his home Rahul walks  $\frac{6}{7}$  kms towards school and then returns  $\frac{5}{6}$  km on the same way towards his home to reach a landmark. At what distance from home he is now?

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