QUESTION BANK: GRADE: 8

SUBJECT: MATHEMATICS

CHAPTER 1: RATIONAL NUMBERS

A. Choose the correct answer

1. What number should be subtracted from $-\dfrac{3}{5}$ to get -2?

   (a) $-\dfrac{7}{5}$ (b) $-\dfrac{13}{5}$ (c) $\dfrac{13}{5}$ (d) $\dfrac{7}{5}$

2. Rational number $\dfrac{3}{40}$ is equal to:

   (a) 0.75   (b) 0.12   (c) 0.012   (d) 0.075

3. A rational number between $\dfrac{3}{5}$ and $\dfrac{4}{5}$ is:

   (a) $\dfrac{7}{5}$ (b) $\dfrac{7}{10}$ (c) $\dfrac{3}{10}$ (d) $\dfrac{4}{10}$

B. Following 3 questions carry 2 marks each.

1. Represent $\dfrac{-2}{11}, \dfrac{-5}{11}, \dfrac{-9}{11}$ on the number line

2. Find if the given rational numbers are equal by applying the conditions for equality of rational numbers.

   a. $\dfrac{3}{4}, \dfrac{-15}{20}$ b. $\dfrac{6}{9}, \dfrac{8}{12}$

3. Write the given rational numbers in the standard form.

   a. $\dfrac{4}{-7}$ b. $\dfrac{18}{27}$

C. Following 2 questions carry 3 marks each.

1. Which of the rational numbers $\dfrac{-5}{16}, \dfrac{-13}{24}, \dfrac{3}{-4}, \dfrac{7}{-12}$ is the smallest?

2. Write.

   (i) The rational number that does not have a reciprocal.
   (ii) The rational numbers that are equal to their reciprocals.
   (iii) The rational number that is equal to its negative.

ANSWER KEY

A 1. d 2. d 3. b

B 2. a not equal

   b. Yes

   3. a 4/7

   B 2/3

C 1. -3/4

   2. (i) 0 (ii) 1. -1 (iii) 0