

NORTH POINT SR. SEC. BOARDING SCHOOL
BRANCH - RAJARHAT SESSION-2020-2021
HOLIDAY HOME WORK OF MATHEMATICS
CLASS - VII DATE - 16/05/2020 WORKSHEET

Choose the correct alternatives in each of the following :

- On subtracting -15 from -9 , we get
(a) -6 (b) -24 (c) 6 (d) 24
- $3495 + 3495 \times 9 =$
(a) 3495 (b) 34950 (c) 6990 (d) none of these
- $(-12) \times 6 - (-12) \times 4 =$
(a) 24 (b) 60 (c) -60 (d) -24
- On subtracting (-8) from 6 , we get
(a) 2 (b) 14 (c) -14 (d) -2
- The sum of two integers is -14 . If one of them is 20 , then the other is
(a) -34 (b) 6 (c) -6 (d) 34
- On subtracting 7 from -6 , we get
(a) 1 (b) -13 (c) 13 (d) -1
- If a, b, c are integers, then $(a \div b) \div c \neq a \div (b \div c)$ unless $c =$
(a) 1 (b) -1 (c) 0 (d) a
- 2 exceeds -3 by
(a) 1 (b) -1 (c) 5 (d) -6
- On subtracting 6 from -6 , we get
(a) -12 (b) 0 (c) 12 (d) none of these
- The smallest integer is
(a) 0 (b) 1 (c) -1 (d) not defined
- $0 \div (-3)$ is equal to
(a) -3 (b) 0 (c) 3 (d) not defined
- $(-7) \div 0$ is
(a) -7 (b) 7 (c) 0 (d) not defined
- On subtracting -5 from -7 , we get
(a) -12 (b) -2 (c) 2 (d) 12
- On multiplying largest three digit integer with the smallest two digit positive integer, we get
(a) 10001 (b) 9990 (c) 9900 (d) 9991
- What should be multiplied by -23 to get 575 ?
(a) 15 (b) 25 (c) -25 (d) 35



FACTS TO REMEMBER

- The numbers of the form $\frac{a}{b}$, where a and b are whole numbers and $b \neq 0$ are called fractions. Here, a is called the numerator and b is called the denominator of fraction.
- A fraction whose numerator is less than the denominator is called a proper fraction.
- A fraction whose numerator is more than or equal to the denominator is called an improper fraction.
- A combination of whole number and a proper fraction is called a mixed fraction.
- The reciprocal of a fraction is obtained by interchanging the numerator and denominator of the fraction.
- Sum of like fractions = $\frac{\text{Sum of their numerators}}{\text{Common denominator}}$
- Difference of like fractions = $\frac{\text{Difference of their numerators}}{\text{Common denominator}}$
- For adding or subtracting unlike fractions, change them into equivalent like fractions and then add or subtract.
- If $\frac{a}{b}$ and $\frac{c}{d}$ are two fractions, then $\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d}$.
- To divide a fraction by another fraction, multiply the first fraction by the reciprocal of the second fraction. Thus, $\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c}$.



MULTIPLE CHOICE QUESTIONS

Choose the correct alternatives in each of the following :

1. Which of the following is a reducible fraction?

(a) $\frac{79}{26}$

(b) $\frac{41}{17}$

(c) $\frac{105}{112}$

(d) $\frac{91}{15}$

2. Which of the following is an improper fraction?

(a) $\frac{3}{5}$

(b) $\frac{8}{9}$

(c) $\frac{11}{13}$

(d) $\frac{9}{8}$

3. Reciprocal of $2\frac{3}{5}$ is

(a) $5\frac{3}{2}$

(b) $3\frac{2}{5}$

(c) $2\frac{3}{5}$

(d) $\frac{5}{13}$

4. $25 \div \frac{1}{5} = ?$

(a) 5

(b) $\frac{1}{5}$

(c) 125

(d) $\frac{1}{125}$

5. Which of the following statements is true?

(a) $\frac{29}{6} = \frac{43}{12}$

(b) $\frac{29}{6} > \frac{43}{2}$

(c) $\frac{29}{6} < \frac{43}{2}$

(d) $\frac{29}{6} = \frac{52}{12}$

6. To get number 40, the number $6\frac{2}{9}$ should be multiplied with

(a) $7\frac{3}{6}$

(b) $6\frac{3}{7}$

(c) $3\frac{6}{7}$

(d) $6\frac{2}{7}$



MENTAL MATHS CORNER

Fill in the blanks :

1. Reciprocal of $\frac{9}{2}$ is

2. $\frac{2}{3}$ of 15 litres is litres.

3. $7\frac{3}{8}$ as improper fraction can be written as

4. $\frac{103}{6}$ as mixed fraction can be written as

5. $\frac{9}{5}$ of $\frac{15}{27} =$

6. $1 \div \frac{3}{5} =$

7. The product of two fractions is $\frac{1}{4}$. If one of the fractions is $\frac{2}{3}$, then the other fraction is

8. $\frac{5}{8}$ of a kilogram = grams.

9. $7\frac{5}{9}$ must be multiplied with to get $11\frac{1}{3}$.
10. $\frac{2}{3} \times \frac{4}{9} \times 0 \times \frac{3}{5} = \dots\dots\dots$
11. The non-zero numbers whose product with each other is 1 are called
12. (i) $\frac{3}{4} \div 3 = \dots\dots\dots$ (ii) $15 \div \frac{3}{5} = \dots\dots\dots$ (iii) $\frac{2}{4} + \frac{1}{2} = \dots\dots\dots$
 (iv) $\frac{3}{2} - 1 = \dots\dots\dots$ (v) $\frac{2}{5} + 1\frac{1}{2} = \dots\dots\dots$ (vi) $\frac{5}{2} - 2 = \dots\dots\dots$
13. The value of the product of two improper fractions is than each of the two fractions.
14. 4 times $\frac{1}{4}$ is equal to



REVIEW EXERCISE

1. Convert the following into mixed fractions :
- (i) $\frac{37}{5}$ (ii) $\frac{77}{8}$ (iii) $\frac{105}{9}$
2. Convert the following into improper fractions :
- (i) $3\frac{5}{7}$ (ii) $2\frac{6}{11}$ (iii) $8\frac{3}{5}$ (iv) $9\frac{4}{11}$
3. Arrange in ascending order : $\frac{5}{12}, \frac{3}{4}, \frac{7}{8}, \frac{13}{24}$
4. Write four equivalent fractions of $\frac{6}{7}$.
5. Find the sum of the following :
- (i) $\frac{5}{12} + \frac{1}{3}$ (ii) $4\frac{1}{3} + 5\frac{2}{5}$ (iii) $8 + \frac{16}{7}$ (iv) $2\frac{1}{4} + 12$
6. Subtract the following :
- (i) $\frac{1}{15}$ from $\frac{3}{10}$ (ii) $\frac{7}{9}$ from $1\frac{5}{18}$
7. Find :
- (i) $\frac{2}{13}$ of 117 (ii) $\frac{3}{7}$ of a week (iii) $3\frac{3}{4}$ of $8\frac{2}{5}$
8. Simplify : $\frac{12}{25} \times \frac{10}{18} \times \frac{15}{8}$
9. Multiply :
- (i) $3\frac{5}{7} \times 4\frac{2}{3}$ (ii) $2\frac{1}{12} \times 1\frac{1}{15}$



MULTIPLE CHOICE QUESTIONS

Choose the correct alternatives in each of the following :

- In a division the quotient is 0.48, divisor is 5 and remainder is zero, then dividend is
(a) 2.04 (b) 4.2 (c) 2.40 (d) 4.02
- $\frac{1}{5}$ can be expressed in decimal as
(a) 0.5 (b) 0.1 (c) 0.02 (d) 0.2
- 0.60 can be written as
(a) $\frac{6}{10}$ (b) $\frac{6}{100}$ (c) $\frac{6}{1000}$ (d) none of these
- How many $\frac{1}{100}$ together make 1?
(a) 10 (b) 1 (c) 100 (d) none of these
- The decimal representation of $4 + \frac{5}{10} + \frac{7}{100}$ is
(a) 0.457 (b) 0.57 (c) 45.7 (d) 4.57
- The lowest form of the decimal 0.004 is
(a) $\frac{1}{20}$ (b) $\frac{1}{250}$ (c) $\frac{1}{150}$ (d) $\frac{1}{25}$
- 0.24 when expressed in the form $\frac{p}{q}$ is
(a) $\frac{6}{25}$ (b) $\frac{4}{25}$ (c) $\frac{24}{10}$ (d) $\frac{3}{25}$
- 3700 grams are equivalent to
(a) 0.37 kg (b) 3.7 kg (c) 37 kg (d) 0.037 kg

9. Which of the following is a true statement?

(a) $1.16 > 1.4$

(b) $1.16 < 1.2$

(c) $1.163 > 1.170$

(d) $1.14 < 1.040$

10. $1.004 - 0.4$ is equal to

(a) 0.006

(b) 1

(c) 0.604

(d) 0.640



MENTAL MATHS CORNER

Fill in the blanks :

- If $7.645 \times 4.8 = 36.696$, then $76.45 \times 0.48 = \dots\dots\dots$
- $31.4965 \times \dots\dots\dots = 3149.65$
- $2.89 \div 1.7$ is equal to $\dots\dots\dots$
- $\frac{1}{200}$ in decimal can be written as $\dots\dots\dots$
- 2.5 when multiplied by $\dots\dots\dots$ gives the product 6.25.
- 342 cm = $\dots\dots\dots$ metre.
- $(4.26 - 3.26) \div 100 = \dots\dots\dots$
- On multiplying a decimal by 100, the decimal point is shifted to the $\dots\dots\dots$ by two places.
- If one bag of sugar weighs 8 kg 500 g, then 10 bags will weigh $\dots\dots\dots$
- The product of two decimals is 1.56. If one of them is 1.2, then other is $\dots\dots\dots$



REVIEW EXERCISE

- Arrange the following decimals in ascending order :
7.46, 7.64, 7.6, 7.4, 7.06, 7.04
- Convert each of the following into decimals :
 - $\frac{4}{5}$
 - $\frac{6528}{1000}$
 - $\frac{39}{25}$
 - $3\frac{5}{8}$
- Add : 19.8, 7.26, 0.074 and 2.37.
- Subtract 3.6204 from 7.
- Find the product :
 - 32.5×1000
 - 0.237×15
 - 0.0065×4
 - 0.327×12
- Find the product :
 - 7.4×2.6
 - 4.26×0.08
 - 0.016×0.26
 - 0.004×0.39
- Divide :
 - 0.068 by 0.004
 - 217.35 by 6.3
 - 7804.5 by 104.06
 - 0.06764 by 0.089