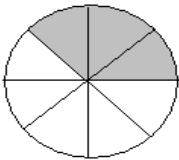




RAMAGYA SCHOOL, NOIDA
III/MATHEMATICS/2017-18
OLYMPIAD PRACTICE WORKSHEET

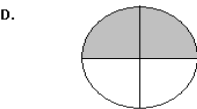
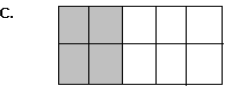
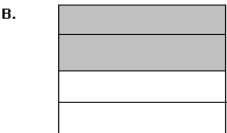
Concept Based –

1. Use fractions to write the part of the whole shape that is shaded?



- (a) $3/8$ (b) $8/3$ (c) $1/8$ (d) $1/2$

2. Which figure is shaded to show a fraction equal to $2/5$ of its whole?



Which two fractions are equivalent?

- (a) $1/2$ and $1/3$ (b) $1/2$ and $2/4$ (c) $1/4$ and $1/6$ (d) $2/3$ and $1/3$

3. Which fraction is equivalent to $1/2$?

- (a) $1/3$ (b) $4/8$ (c) $2/3$ (d) $2/5$

4. $(1/8) + (3/8)$ is same as?

- (a) $1/2$ (b) $4/5$ (c) $1/4$ (d) $3/4$

5. Which symbol should go in the bracket?

0.06 () 0.6

- (a) < (b) > (c) = (d) None of these

6. Mom has 10 coins. She gives 5 coins to Riya. What fraction of the coins did Riya get?

- (a) $\frac{1}{5}$ (b) $\frac{1}{3}$ (c) $\frac{1}{2}$ (d) $\frac{1}{10}$

Application Based

7. Half of half is the same as the fraction.

- (a) $\frac{1}{2}$ (b) $\frac{1}{4}$ (c) $\frac{2}{4}$ (d) $\frac{3}{4}$

8. If the fractions $\frac{N}{6}$ and $\frac{2}{3}$ are equivalent, what is the value of N? .

- (a) $N=2$ (b) $N=1$ (c) $N=4$ (d) $N=3$

9. Order from greatest to least the fractions **$\frac{1}{3}$, $\frac{1}{6}$, $\frac{1}{2}$, $\frac{1}{7}$** .

- (a) $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{6}$, $\frac{1}{7}$ (b) $\frac{1}{7}$, $\frac{1}{6}$, $\frac{1}{3}$, $\frac{1}{2}$ (c) $\frac{1}{2}$, $\frac{1}{6}$, $\frac{1}{3}$, $\frac{1}{7}$ (d) $\frac{1}{7}$, $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{6}$

10. What value of the number N given below makes **$\frac{N}{3} < \frac{1}{2}$** ?

- (a) $N=3$ (b) $N=2$ (c) $N=1$ (d) $N=4$

11. Which option shows 0.82 as a fraction?

- (a) $\frac{82}{1000}$ (b) $\frac{82}{10}$ (c) $\frac{82}{100}$ (d) $\frac{8.2}{100}$

12. Which option shows $\frac{1}{20}$ as a decimal?

- (a) 0.02 (b) 0.05 (c) 0.25 (d) 0.5

13. Which of the following fraction has denominator 4?

- (a) $\frac{42}{7}$ (b) $\frac{7}{24}$ (c) $\frac{9}{4}$ (d) $\frac{4}{9}$

Value Based

14. John, Sarah, Tom and Joana bought 2 pizzas of the same size. John ate $\frac{2}{4}$ of a pizza. Tom, Sarah and Joana ate $\frac{1}{4}$ of a pizza each. How much pizza was left?

- (a) $\frac{1}{4}$ of a pizza (b) 1 pizza (c) $\frac{1}{2}$ of a pizza (d) $\frac{3}{4}$ of a pizza

15. Vani has a bag that contains 3 red, 1 blue, 6 green and 2 yellow marbles. What fractional part of the bag of marbles is red?

- (a) $\frac{1}{12}$ (b) $\frac{2}{12}$ (c) $\frac{3}{12}$ (d) $\frac{6}{12}$

16. Nisha bought 30 berries. She ate $\frac{1}{3}$ of the berries. How many berries did she have left?

- (a) 10 (b) 20 (c) 15 (d) 12

17. Which of the following options shows a proper fraction?

- (a) $\frac{9}{4}$ (b) $\frac{5}{3}$ (c) $\frac{3}{4}$ (d) $\frac{11}{5}$

18. There are 18 bread slices in a package. If you use one-third of the package, how many bread slices are left?

- (a) 9 (b) 8 (c) 12 (d) 6

19. Evaluate the expression: $(\frac{5}{4}) + (\frac{3}{4})$

- (a) 2 (b) 3 (c) $3\frac{1}{2}$ (d) $3\frac{1}{4}$

20. Kiran's glass had $\frac{4}{8}$ of a cup of apple juice in it. She drank $\frac{2}{8}$ of it. How much juice is left?

- (a) $\frac{2}{8}$ (b) $\frac{1}{8}$ (c) $\frac{3}{4}$ (d) $\frac{6}{8}$