

Class: 7
Subject: Mathematics
Topic: Fractions and Decimals
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

Q1. What is the fraction of the shaded area?



- A. $\frac{1}{4}$
- B. $\frac{1}{3}$
- C. $\frac{1}{2}$
- D. None of these

Sol: B

4 Portions are shaded out of 8 portions so the fraction will be $\frac{4}{8}$ or $\frac{1}{2}$

Q2. $(\frac{9}{7}) \times 6 =$ _____

- A. $\frac{57}{7}$
- B. $\frac{54}{7}$
- C. $\frac{15}{7}$
- D. $\frac{51}{7}$

Sol: B

$$(\frac{9 \times 6}{7}) = \frac{54}{7}$$

Q3. $\frac{1}{2}$ of 10 = _____

- A. 5
- B. 12
- C. 20
- D. 8

Sol: A

½ OF 10 IS 5

Q4. $7 \div \frac{2}{5} = \underline{\hspace{2cm}}$

- A. $\frac{2}{35}$
- B. 35
- C. $\frac{35}{2}$
- D. $\frac{38}{5}$

Sol: C

$$7 / (2/5) = 7 * 5/2 = 35/2$$

Q5. $0.01 \times 0.01 = \underline{\hspace{2cm}}$

- A. 0.1
- B. 1
- C. 0.0001
- D. 0.001

Sol: C

Q6. Reciprocal of $\frac{2}{5}$ is $\underline{\hspace{2cm}}$

- A. $\frac{5}{3}$
- B. None of these
- C. $\frac{2}{5}$
- D. $\frac{5}{2}$

Sol: B

Reciprocal of x is $1/x$ so reciprocal of $2/5$ is $5/2$

Q7. In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English, $\frac{2}{5}$ of the total number like to study mathematics and the remaining students like to study Science. How many students like to study Mathematics?

- A. 16
- B. 2
- C. 8
- D. 4

Sol: A

$$\frac{2}{5} \text{ OF } 40 = 16$$

Q8. Saili plants 4 saplings, in a row, in her garden. The distance between two adjacent saplings is $\frac{3}{4}$ m. Find the distance between the first and the last sapling.

- A. $\frac{9}{4}$ m
- B. $\frac{4}{9}$ m
- C. None of these
- D. 1 m

Sol: A

There will be three such gaps between first plant to last plant.

$$\text{So } 3 * (\frac{3}{4}) = \frac{9}{4}$$

Q9. Each side of a regular polygon is 2.5 cm in length. The perimeter of the polygon is 12.5 cm. How many sides does the polygon have?

- A. 4
- B. 5
- C. 3
- D. 2

Sol: B

$$(12.5/2.5)$$

Q10. $\frac{13}{11} \times 6 \approx$ _____

- A. $\frac{53}{11}$
- B. $\frac{19}{11}$
- C. $\frac{79}{11}$
- D. $\frac{78}{11}$

Sol: D

Q11. $\frac{1}{5}$ of 30 is _____.

- A. 7
- B. 5
- C. 0
- D. 6

Sol: D

Q12. $\frac{1}{7} \times \frac{1}{3} \approx$ _____

- A. $\frac{3}{7}$
- B. $\frac{1}{10}$
- C. $\frac{7}{3}$
- D. $\frac{1}{21}$

Sol: D

Q13. $\frac{1}{3} \div \frac{1}{7} =$ _____

- A. $\frac{7}{3}$
- B. $\frac{1}{21}$
- C. $\frac{3}{7}$
- D. 21

Sol: A

Q14. $\frac{2}{3}$ of 15 is _____.

- A. 20
- B. 30
- C. 10
- D. 40

Sol: C

Q15. Reciprocal of $\frac{7}{9}$ is _____.

- A. $\frac{9}{7}$
- B. $\frac{7}{9}$
- C. $\frac{1}{63}$
- D. 63

Sol: A

Q16. $2.4 \div 0.2 = 24 \div 2 =$ _____.

- A. 14
- B. 13
- C. None of these
- D. 12

Sol: D

Q17. Sushma reads part of a book in 1 hour. How much part of the book will he read in $3\frac{2}{3}$ hours?

- A. $\frac{1}{4}$
- B. $\frac{11}{15}$
- C. None of these
- D. $\frac{1}{2}$

Sol: C

1 hr -> 1 part

$3\frac{2}{3}$ hr -> $\frac{11}{3}$ part

So none of these

Q18. Find: $7.75 \div 0.25$

- A. 31
- B. 36
- C. None of these
- D. 34

Sol: A

$$7.75/.25$$

Multiply numerator and denominator by 4

$$31/1 = 31$$

Q19. Find: $76.5 \div 0.15$

- A. 3
- B. 2
- C. 510
- D. None of these

Sol: C

Q20. Find: $22.5 \div 0.15$

- A. 5
- B. 15
- C. None of these
- D. 150

Sol: D