

Fractions

Mathematics · Class 3 · Topic-wise Practice Worksheet

TIME 40 minutes	QUESTIONS 15	TOTAL MARKS 21	MAX. SCORE ___ / 21
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Name: _____ Class/Sec: _____ Date: _____

INSTRUCTIONS

- There are **15 questions** in this worksheet. All questions are compulsory.
- Each question has four options (A), (B), (C) and (D). Exactly **one** option is correct.
- Questions 1–12 carry **1 mark** each. Questions 13–15 (Achievers Section) carry **3 marks** each.
- There is no negative marking. Use of a calculator is **not** allowed.
- Rough work may be done in the space at the side of each page.

Section A — Mathematical Reasoning

Q1–Q8 · 1 mark each

1. What fraction of the circle is shaded?

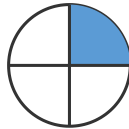


Fig. 1.1

(A) $\frac{1}{4}$

(B) $\frac{1}{3}$

(C) $\frac{1}{2}$

(D) $\frac{3}{4}$

2. Which fraction is **greater**?

(A) $\frac{1}{8}$

(B) $\frac{1}{4}$

(C) $\frac{1}{6}$

(D) $\frac{1}{2}$

3. $\frac{1}{3} + \frac{1}{3} = \underline{\hspace{2cm}}$

(A) $\frac{2}{3}$

(B) $\frac{1}{6}$

(C) $\frac{2}{6}$

(D) $\frac{1}{9}$

4. What is half of 20?

(A) 5

(B) 10

(C) 15

(D) 40

5. In the fraction $\frac{5}{7}$, the number 5 is called the _____.

(A) Denominator

(B) Quotient

(C) Numerator

(D) Remainder

6. Which fraction is equal to $\frac{1}{2}$?

(A) $\frac{3}{8}$

(B) $\frac{1}{4}$

(C) $\frac{2}{3}$

(D) $\frac{2}{4}$

7. Ravi ate $\frac{3}{4}$ of a chocolate bar. What fraction is left?

(A) $\frac{1}{4}$

(B) $\frac{1}{2}$

(C) $\frac{2}{4}$

(D) $\frac{3}{4}$

8. Which of these fractions is the **smallest**?

(A) $\frac{4}{9}$

(B) $\frac{7}{9}$

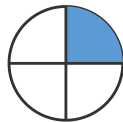
(C) $\frac{2}{9}$

(D) $\frac{5}{9}$

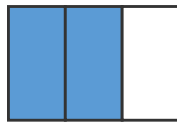
Section B — Everyday Mathematics and Reasoning

Q9–Q12 · 1 mark each

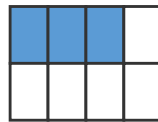
9. Which shape has exactly $\frac{2}{3}$ of it shaded?



P



Q



R



S

Fig. 9.1 — Four shaded shapes

(A) P

(B) Q

(C) R

(D) S

10. There are 12 apples in a basket. Meena gives away $\frac{1}{4}$ of them. How many apples does she give away?

(A) 2

(B) 3

(C) 4

(D) 6

11. Which sign makes this true? $\frac{2}{5} \square \frac{3}{5}$

(A) >

(B) ×

(C) =

(D) <

12. A pizza is cut into 6 equal slices and 2 slices are eaten. What fraction of the pizza is left?

(A) $\frac{4}{6}$

(B) $\frac{2}{6}$

(C) $\frac{1}{6}$

(D) $\frac{6}{4}$

13. Find the value of $\frac{1}{2}$ of 36 + $\frac{1}{3}$ of 18.

(A) 18

(B) 24

(C) 27

(D) 30

14. A ribbon is 1 metre long. Riya uses $\frac{3}{4}$ of it. How many **centimetres** of ribbon are left?

(A) 20 cm

(B) 40 cm

(C) 25 cm

(D) 75 cm

15. In a class of 40 students, $\frac{1}{5}$ play cricket and $\frac{1}{4}$ play football. How many students play **neither** game?

(A) 18

(B) 20

(C) 22

(D) 24

Answer Key

1	A	2	D	3	A	4	B	5	C
6	D	7	A	8	C	9	B	10	B
11	D	12	A	13	B	14	C	15	C

Solutions

1. Answer: (A) $\frac{1}{4}$

The circle is divided into 4 equal parts and 1 of them is shaded, so the shaded fraction is $\frac{1}{4}$.

2. Answer: (D) $\frac{1}{2}$

When the numerator is 1, the smaller the denominator the bigger the piece — cutting a cake into 2 gives much bigger pieces than cutting it into 8. So $\frac{1}{2}$ is the greatest.

3. Answer: (A) $\frac{2}{3}$

The denominators are the same, so we simply add the numerators and keep the denominator.

$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

4. Answer: (B) 10

Half means one of two equal parts, so we divide by 2.

$$20 \div 2 = 10.$$

5. Answer: (C) Numerator

The top number of a fraction is the **numerator**; it tells how many parts have been taken. The bottom number, 7, is the denominator and tells how many equal parts there are in all.

6. Answer: (D) $\frac{2}{4}$

Multiplying both the top and the bottom of $\frac{1}{2}$ by 2 gives $\frac{2}{4}$. Two quarters make exactly one half, so they are equivalent fractions.

7. Answer: (A) $\frac{1}{4}$

A whole bar is $\frac{4}{4}$.

$$\frac{4}{4} - \frac{3}{4} = \frac{1}{4} \text{ is left.}$$

8. Answer: (C) $\frac{2}{9}$

All four have the same denominator, so we just compare the numerators: 4, 7, 2 and 5. The smallest numerator is 2, so $\frac{2}{9}$ is the smallest fraction.

9. Answer: (B) Q

Shape **Q** is divided into 3 equal strips and 2 of them are shaded, which is $\frac{2}{3}$. P shows $\frac{1}{4}$, R shows $\frac{3}{8}$ and S shows $\frac{1}{2}$.

10. Answer: (B) 3

$\frac{1}{4}$ of 12 means $12 \div 4 = 3$ apples.

11. Answer: (D) <

Both fractions have the same denominator, so compare the numerators: 2 is less than 3. So $\frac{2}{5}$ is smaller and the sign is <.

12. Answer: (A) $\frac{4}{6}$

6 slices in all, 2 eaten, so $6 - 2 = 4$ slices are left.

The fraction left is $\frac{4}{6}$, which is the same as $\frac{2}{3}$.

13. Answer: (B) 24

$\frac{1}{2}$ of 36 = $36 \div 2 = 18$.

$\frac{1}{3}$ of 18 = $18 \div 3 = 6$.

Sum = $18 + 6 = \mathbf{24}$.

14. Answer: (C) 25 cm

1 metre = 100 cm.

The fraction left is $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$.

$\frac{1}{4}$ of 100 cm = $100 \div 4 = \mathbf{25 \text{ cm}}$.

15. Answer: (C) 22

Cricket: $\frac{1}{5}$ of 40 = $40 \div 5 = 8$ students.

Football: $\frac{1}{4}$ of 40 = $40 \div 4 = 10$ students.

Playing a game: $8 + 10 = 18$ students.

Playing neither: $40 - 18 = \mathbf{22}$ students.