

Fractions and Decimals

Mathematics · Class 4 · 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. Which fraction is equivalent to $\frac{3}{4}$?

(A) $\frac{6}{8}$

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

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

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

2. $\frac{5}{8} + \frac{2}{8} =$ _____

(A) $\frac{7}{16}$

(B) $\frac{10}{8}$

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

(D) $\frac{7}{8}$

3. $\frac{7}{9} - \frac{4}{9} =$ _____

(A) $\frac{3}{9}$

(B) $\frac{3}{18}$

(C) $\frac{11}{9}$

(D) $\frac{3}{0}$

4. The fraction $\frac{9}{4}$ written as a mixed number is _____.

(A) $1\frac{5}{4}$

(B) $2\frac{1}{4}$

(C) $4\frac{1}{9}$

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

5. 0.7 written as a fraction is _____.

(A) $\frac{1}{7}$

(B) $\frac{7}{100}$

(C) $\frac{7}{10}$

(D) $\frac{70}{10}$

6. Which decimal is the **greatest**?

(A) 0.499

(B) 0.45

(C) 0.09

(D) 0.5

7. $3.6 + 2.75 =$ _____

(A) 6.35

(B) 5.35

(C) 6.45

(D) 5.81

8. $\frac{1}{2}$ written as a decimal is _____.

(A) 0.12

(B) 0.5

(C) 0.2

(D) 1.2

Section B — Everyday Mathematics and Reasoning

Q9–Q12 · 1 mark each

9. Which shape has exactly $\frac{3}{8}$ of it shaded?

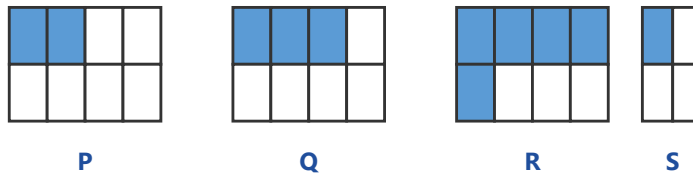


Fig. 9.1 — Four shaded shapes

(A) P

(B) Q

(C) R

(D) S

10. A rope 4.5 m long is cut from a roll of 12 m. How much rope is left?

(A) 6.5 m

(B) 8.5 m

(C) 7.5 m

(D) 16.5 m

11. In a class of 36 students, $\frac{2}{3}$ came by bus. How many students came by bus?

(A) 12

(B) 18

(C) 24

(D) 27

12. Which sign makes this true? $\frac{3}{5} \square \frac{7}{10}$

(A) >

(B) ×

(C) =

(D) <

Achievers Section

Q13–Q15 · 3 marks each

13. Riya spent $\frac{1}{4}$ of her money on books and $\frac{2}{5}$ of it on clothes. What fraction of her money is left?

(A) $\frac{7}{20}$

(B) $\frac{9}{20}$

(C) $\frac{13}{20}$

(D) $\frac{3}{9}$

14. A jug holds 2.5 litres of juice. It is poured equally into 5 glasses. How much juice does each glass hold?

(A) 0.2 l

(B) 0.5 l

(C) 1.25 l

(D) 12.5 l

15. Arrange $\frac{1}{2}$, 0.45, $\frac{3}{5}$ and 0.7 from **smallest** to **largest**.

(A) 0.45, $\frac{3}{5}$, $\frac{1}{2}$, 0.7

(C) 0.45, $\frac{1}{2}$, $\frac{3}{5}$, 0.7

(B) $\frac{1}{2}$, 0.45, $\frac{3}{5}$, 0.7

(D) 0.7, $\frac{3}{5}$, $\frac{1}{2}$, 0.45

Answer Key

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

Solutions

1. **Answer: (A)** $\frac{6}{8}$

Multiplying both the numerator and the denominator of $\frac{3}{4}$ by 2 gives $\frac{6}{8}$. Equivalent fractions look different but have the same value.

2. **Answer: (D)** $\frac{7}{8}$

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

$$\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$$

3. **Answer: (A)** $\frac{3}{9}$

Subtract the numerators and keep the denominator.

$$\frac{7}{9} - \frac{4}{9} = \frac{3}{9}, \text{ which can also be written as } \frac{1}{3}$$

4. **Answer: (B)** $2\frac{1}{4}$

Divide 9 by 4: it goes 2 times with 1 left over.

$$\text{So } \frac{9}{4} = 2\frac{1}{4}$$

5. **Answer: (C)** $\frac{7}{10}$

The first digit after the decimal point is the tenths place, so 0.7 means 7 tenths = $\frac{7}{10}$.

6. **Answer: (D)** 0.5

Compare the tenths digit first: 5, 4, 0 and 4. The greatest tenths digit is 5, so **0.5** is the greatest — even though 0.499 has more digits.

7. **Answer: (A)** 6.35

Line up the decimal points and write 3.6 as 3.60.

$$3.60 + 2.75 = \mathbf{6.35}$$

8. **Answer: (B)** 0.5

$$\frac{1}{2} = \frac{5}{10} = \mathbf{0.5}$$

9. **Answer: (B)** Q

Count the parts in each shape. **Q** is divided into 8 equal parts with 3 shaded, which is $\frac{3}{8}$. P shows $\frac{2}{8}$, R shows $\frac{5}{8}$ and S

shows $\frac{1}{4}$.

10. **Answer: (C)** 7.5 m

Write 12 as 12.0 and line up the decimal points.

$$12.0 - 4.5 = \mathbf{7.5 \text{ m}}$$

11. **Answer: (C)** 24

$$\frac{1}{3} \text{ of } 36 = 36 \div 3 = 12$$

$$\text{So } \frac{2}{3} \text{ of } 36 = 2 \times 12 = \mathbf{24} \text{ students.}$$

12. Answer: (D) <

Write both with denominator 10: $\frac{3}{5} = \frac{6}{10}$.

Now compare $\frac{6}{10}$ and $\frac{7}{10}$: 6 is less than 7.

So the sign is <.

13. Answer: (A) $\frac{7}{20}$

Write both fractions with denominator 20.

$$\frac{1}{4} = \frac{5}{20} \text{ and } \frac{2}{5} = \frac{8}{20}.$$

$$\text{Spent} = \frac{5}{20} + \frac{8}{20} = \frac{13}{20}.$$

$$\text{Left} = \frac{20}{20} - \frac{13}{20} = \frac{7}{20}.$$

14. Answer: (B) 0.5 l

2.5 litres = 2500 ml.

$2500 \div 5 = 500$ ml, which is **0.5 litres** in each glass.

15. Answer: (C) 0.45, $\frac{1}{2}$, $\frac{3}{5}$, 0.7

Change every value to a decimal so they can be compared directly.

$\frac{1}{2} = 0.5$, 0.45 stays as it is, $\frac{3}{5} = 0.6$ and 0.7 stays as it is.

In order: $0.45 < 0.5 < 0.6 < 0.7$.

So the order is **0.45, $\frac{1}{2}$, $\frac{3}{5}$, 0.7**.