Class 6 Percentage Worksheet with Answers

Thinking Juggernaut

Name: _____   Date: _____   **Total Marks:** 24

🎯 Understanding Percentages - Class 6

What is Percentage?

Percentage means "per hundred" or "out of 100". The symbol is **%**

Key Conversions:

• Fraction to Percentage: Multiply by 100

• Decimal to Percentage: Multiply by 100

• Percentage to Fraction: Divide by 100

• Percentage to Decimal: Divide by 100

Fraction → %	**Decimal → %**	**% → Decimal**
1/2	0.75	60%
↓ ×100	↓ ×100	↓ ÷100
50%	**75%**	**0.60**
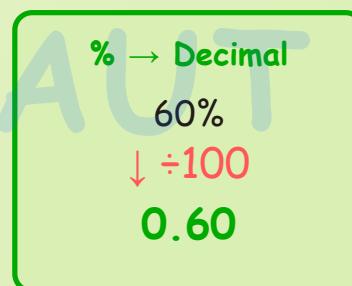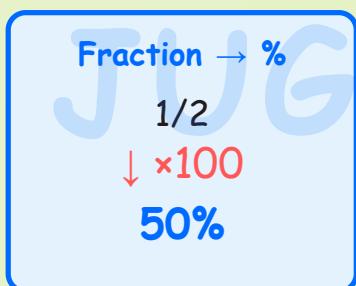
📐 Important Formulas

1. **Percentage = (Part/Whole) × 100**

2. **To find percentage of a number:** (Percentage/100) × Number

3. **To convert fraction to %:** Fraction × 100

4. **To convert % to fraction:** Percentage ÷ 100

📝 **Sample Problems**

Example 1: Convert 3/5 to percentage

Solution:

3/5 = (3/5) × 100 = 0.6 × 100 = 60%

Answer: 60%

Example 2: Find 25% of 80

Solution:

25% of 80 = (25/100) × 80 = 0.25 × 80 = 20

Answer: 20

Part A: Conversion Practice

⭐ Easy Level

1. Convert 1/5 to percentage.

| 1 | 2 | 3 | 4 | 5 |

1 out of 5 parts = 1/5 = ?%

2. Convert 0.75 to percentage.

3. Convert 45% to a fraction in simplest form.

4. Convert 60% to a decimal.

5. Which is greater: 0.8 or 75%?

6. Convert 2/8 to percentage.

7. What fraction of 100 is 35%?

8. True or False: 0.5 = 50%

○ True   ○ False

Part B: Finding Percentages

⭐⭐ **Medium Level**

9. Find 20% of 150.

10. Find 15% of 200.

15% of 200 = ?

Total: 200

15%

15/100 × 200 = ?

11. What is 10% of 450?

12. Calculate 35% of 80.

13. In a class of 40 students, 25% are girls. How many girls are there?

14. A shopkeeper gives 10% discount on a shirt priced at ₹500. What is the discount amount?

15. Rahul scored 36 marks out of 60. What is his percentage?

Part C: Word Problems

⭐⭐⭐ Hard Level

16. A school has 800 students. If 45% are boys, how many boys are in the school?

17. Priya saved ₹1200 from her monthly allowance of ₹2000. What percentage of her allowance did she save?

Monthly Allowance: ₹2000

Saved: ₹1200 | Spent: ₹800

Percentage Saved = (1200/2000) × 100 = ?%

Find what % of 2000 is 1200

18. In an exam, Amit got 72 marks out of 90. What is his percentage? If passing marks are 40%, did he pass?

19. A fruit vendor had 250 apples. He sold 60% of them. How many apples did he sell? How many are left?

20. The price of a bicycle is ₹4500. If the price increases by 20%, what will be the new price?

21. In a library, there are 600 books. 35% are science books, 25% are story books, and the rest are other books. How many books are in each category?

22. A cricket player scored 85 runs out of the team's total of 250 runs. What percentage of the team's runs did he score?

23. A water tank can hold 500 liters. If it is 40 % full, how many more liters are needed to fill it completely?

Empty Space
(60% = ? L)

— 500L (100%)

— 200L (40%)

40% Full

— 0L (0%)
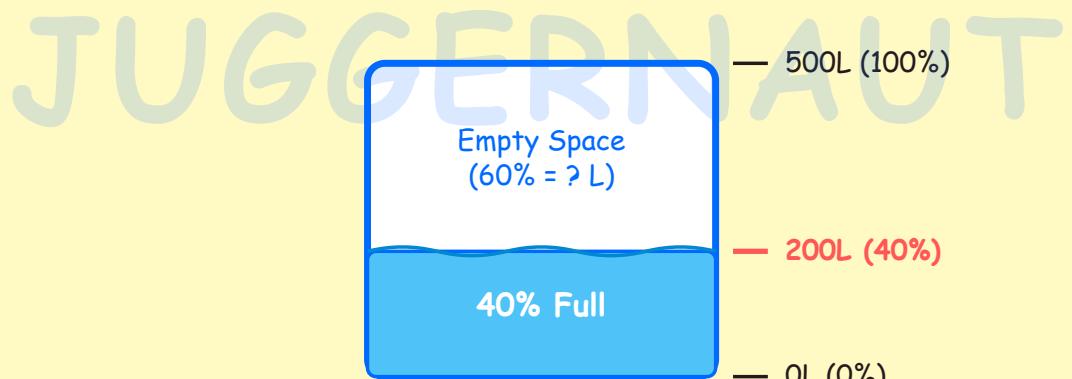
How many more liters needed?

24. A school's student population increased from 400 to 500. What is the percentage increase?

| Before
400
students | +100 → | After
500
students |
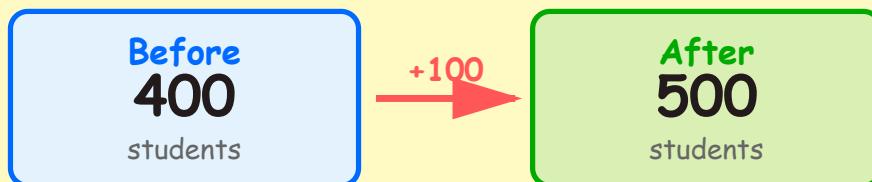
% Increase = (Increase/Original) × 100 = ?

THINKING JUGGERNAUT

🔑 Answer Key

Part A: Conversion Practice

1. 20% (1/5 × 100 = 20%)

2. 75% (0.75 × 100 = 75%)

3. 9/20 (45/100 = 9/20 in simplest form)

4. 0.60 or 0.6 (60 ÷ 100 = 0.6)

5. 0.8 is greater (0.8 = 80%, which is > 75%)

6. 25% (2/8 = 1/4 = 25%)

7. 35/100 or 7/20 in simplest form

8. True

Part B: Finding Percentages

9. 30 (20% of 150 = 20/100 × 150 = 30)

10. 30 (15% of 200 = 15/100 × 200 = 30)

11. 45 (10% of 450 = 10/100 × 450 = 45)

12. 28 (35% of 80 = 35/100 × 80 = 28)

13. 10 girls (25% of 40 = 25/100 × 40 = 10)

14. ₹50 (10% of 500 = 10/100 × 500 = 50)

15. 60% (36/60 × 100 = 60%)

Part C: Word Problems

16. 360 boys (45% of 800 = 45/100 × 800 = 360)

17. 60% (1200/2000 × 100 = 60%)

18. 80% (72/90 × 100 = 80%); Yes, he passed (80% > 40%)

19. Sold: 150 apples (60% of 250 = 150); Left: 100 apples (250 - 150 = 100)

20. ₹5400 (Increase = 20% of 4500 = 900; New price = 4500 + 900 = 5400)

21. Science: 210 books (35% of 600); Story: 150 books (25% of 600); Others: 240 books (40% of 600)

22. 34% (85/250 × 100 = 34%)

23. 300 liters (Current: 40% of 500 = 200L; Needed: 500 - 200 = 300L)

24. 25% increase (Increase = 100; Percentage = 100/400 × 100 = 25%)

📊 Scoring Guide

Total Questions: 24 | Total Marks: 24

Score Range	Performance Level	What to Do Next
20-24	⭐⭐⭐ Excellent!	Outstanding! You've mastered percentages!
15-19	⭐⭐ Very Good!	Great work! Practice word problems more.
10-14	⭐ Good Effort!	Keep practicing conversions and calculations.
0-9	Keep Trying!	Review the formulas and practice daily.

📌 **Study Tips:**

- Remember the basic formulas for conversions
- Practice converting between fractions, decimals, and percentages
- For word problems, identify what is given and what is asked
- Always simplify fractions when converting to percentage
- Check your answers by working backwards

✨ **Great Job Completing This Worksheet!** ✨

Keep practicing and you'll become a math champion!

📥 Download more worksheets like this

🌐 Visit: https://thinkingjuggernaut.in/

Thinking Juggernaut

| **NEP-aligned, hands-on experiential kits**

NEP-2020 aligned hands-on kits and workbooks that help kids think independently, solve problems, and explore experiential learning.

Explore Kits

Founded by NIT & IIT Alumni

Thinking Juggernaut

| **NEP-aligned, hands-on experiential kits**

Applied Maths Kit (Age 7+)

Applied Maths Kit (Age 10+)

Interdisciplinary STEM Kit (Age 7+)

Interdisciplinary STEM Kit (Age 10+)

Entrepreneurship Kit

Finance Literacy Kit

Chess Starter Kit

Explore Sanskrit Kit

Founded by IIT & NIT Alumni, Thinking Juggernaut is a NEP-2020 aligned experiential learning platform that builds 21st-century skills, connects subjects, and links classroom concepts to real-life challenges.

View All Kits Online →