

# Grade 5 Fraction Operations Challenge Worksheet

## Set 018

Grade 5 · Fraction Operations · Challenge

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Use common denominators, fraction multiplication, and unit-fraction division. Simplify each answer and write mixed numbers when needed.

1. Add and simplify:  $\frac{1}{2} + \frac{3}{8}$ .

Answer: \_\_\_\_\_

2. Subtract and simplify:  $\frac{1}{3} - \frac{3}{12}$ .

Answer: \_\_\_\_\_

3. Multiply and simplify:  $\frac{7}{8} \times 12$ .

Answer: \_\_\_\_\_

4. What is  $\frac{2}{3}$  of 18?

Answer: \_\_\_\_\_

5. Multiply and simplify:  $\frac{3}{4} \times \frac{1}{10}$ .

Answer: \_\_\_\_\_

6. Divide and simplify:  $\frac{1}{5} \div 5$ .

Answer: \_\_\_\_\_

7. Divide:  $4 \div \frac{1}{5}$ .

Answer: \_\_\_\_\_

8. Add and simplify:  $6 \frac{9}{12} + 3 \frac{1}{3}$ .

Answer: \_\_\_\_\_

9. Subtract and simplify:  $6 \frac{9}{10} - 2 \frac{1}{8}$ .

Answer: \_\_\_\_\_

10. Add and simplify:  $\frac{2}{6} + \frac{5}{8}$ .

Answer: \_\_\_\_\_

11. Subtract and simplify:  $\frac{2}{3} - \frac{2}{5}$ .

Answer: \_\_\_\_\_

12. Multiply and simplify:  $\frac{2}{3} \times 7$ .

Answer: \_\_\_\_\_

13. What is  $\frac{2}{4}$  of 20?

Answer: \_\_\_\_\_

14. Multiply and simplify:  $\frac{1}{12} \times \frac{4}{5}$ .

Answer: \_\_\_\_\_

15. Divide and simplify:  $\frac{1}{5} \div 9$ .

Answer: \_\_\_\_\_

16. Divide:  $2 \div \frac{1}{3}$ .

Answer: \_\_\_\_\_

17. Add and simplify:  $1\frac{2}{3} + 3\frac{5}{6}$ .

Answer: \_\_\_\_\_

18. Subtract and simplify:  $4\frac{1}{5} - 2\frac{5}{8}$ .

Answer: \_\_\_\_\_

19. Add and simplify:  $\frac{2}{10} + \frac{1}{2}$ .

Answer: \_\_\_\_\_

20. Subtract and simplify:  $\frac{2}{3} - \frac{1}{4}$ .

Answer: \_\_\_\_\_

21. Multiply and simplify:  $\frac{6}{12} \times 4$ .

Answer: \_\_\_\_\_

22. What is  $\frac{1}{2}$  of 24?

Answer: \_\_\_\_\_

23. Multiply and simplify:  $\frac{1}{2} \times \frac{8}{10}$ .

Answer: \_\_\_\_\_

24. Divide and simplify:  $\frac{1}{10} \div 6$ .

Answer: \_\_\_\_\_

# Answer Key

Answers for all 24 questions

|                     |                      |
|---------------------|----------------------|
| 1. $\frac{7}{8}$    | 2. $\frac{1}{12}$    |
| 3. $10\frac{1}{2}$  | 4. 12                |
| 5. $\frac{3}{40}$   | 6. $\frac{1}{25}$    |
| 7. 20               | 8. $10\frac{1}{12}$  |
| 9. $4\frac{31}{40}$ | 10. $\frac{23}{24}$  |
| 11. $\frac{4}{15}$  | 12. $4\frac{2}{3}$   |
| 13. 10              | 14. $\frac{1}{15}$   |
| 15. $\frac{1}{45}$  | 16. 6                |
| 17. $5\frac{1}{2}$  | 18. $1\frac{23}{40}$ |
| 19. $\frac{7}{10}$  | 20. $\frac{5}{12}$   |
| 21. 2               | 22. 12               |
| 23. $\frac{2}{5}$   | 24. $\frac{1}{60}$   |