



Fractions & Decimals Operations

Name: _____

Grade: 6

Date: _____

Add, subtract, multiply, and divide fractions & decimals. Estimate, simplify, and apply in real contexts.

Part 1 · Add & Subtract Fractions

ADD/SUB

1. $\frac{2}{3} + \frac{1}{6} =$ _____

2. $\frac{5}{8} - \frac{1}{4} =$ _____

3. $\frac{7}{10} + \frac{3}{5} =$ _____

4. $\frac{9}{12} - \frac{1}{3} =$ _____

5. $\frac{3}{4} + \frac{2}{8} =$ _____

6. $\frac{5}{6} - \frac{1}{2} =$ _____

Part 2 · Multiply & Divide Fractions

MULT/DIV

7. $\frac{2}{3} \times \frac{3}{4} =$ _____

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

(9. $7/10 \times 5/7 =$ _____

(10. $9/12 \div 3/4 =$ _____

(11. $3/4 \times 2/3 =$ _____

(12. $5/6 \div 1/2 =$ _____

Part 3 · Decimal Operations

DECIMAL

(13. $0.7 + 0.25 =$ _____

(14. $0.8 - 0.35 =$ _____

(15. $0.6 \times 0.5 =$ _____

(16. $0.9 \div 0.3 =$ _____

(17. $2.4 \times 0.5 =$ _____

(18. $1.2 \div 0.4 =$ _____

Part 4 · Mixed Contexts

CONTEXT

(19. A recipe uses $3/4$ cup sugar and 0.5 cup flour. Total cups = _____

20. A runner covers 2.5 km, then 1.75 km. Total = _____ km

21. A bottle holds 1.2 L; you pour out 0.75 L. Left = _____ L

22. A pizza is cut into 8 slices; you eat 3. Fraction left = _____

23. A bag has $\frac{2}{5}$ red and 0.3 blue marbles. Fraction blue = _____

24. A tank fills 0.6 L/min for 5 min. Total = _____ L

Part 5 · Estimation & Reasonableness EST

25. Estimate: $0.48 + 0.53 \approx$ _____

26. Estimate: $\frac{2}{3} \times 0.29 \approx$ _____

27. Is 0.7×0.9 closer to 0.6 or 0.8? _____

28. Is $\frac{5}{8} + \frac{1}{4}$ closer to $\frac{1}{2}$ or 1? _____

29. $0.25 \times 4.1 \approx$ _____

30. $\frac{2}{3} \div 2 \approx$ _____

Part 6 · Error Analysis FIX

(31. Error: $2/3 + 1/6 = 3/9$. Correct & mistake: _____ / _____

(32. Error: $0.8 - 0.35 = 0.45$. Correct & why: _____ / _____

(33. Error: $5/8 \div 2 = 2.5$. Correct & why: _____ / _____

Part 7 · Challenge & Reflection CHALLENGE

(34. $3/4 \times 2/5 + 0.2 =$ _____

(35. $1.2 \div 3/4 =$ _____

(36. $2/3 \times 0.6 =$ _____

(37. $5/6 - 0.5 =$ _____

(38. $2.5 \times 1/2 =$ _____

(39. Reflection: Most helpful strategy? _____

Answer Key

1. $\frac{5}{6}$
2. $\frac{3}{8}$
3. 1.3
4. $\frac{5}{12}$
5. 1
6. $\frac{1}{3}$
7. $\frac{1}{2}$
8. $\frac{5}{16}$
9. $\frac{1}{2}$
10. 1
11. $\frac{1}{2}$
12. $\frac{5}{3}$
13. 0.95
14. 0.45
15. 0.3
16. 3
17. 1.2
18. 3
19. 1.25
20. 4.25
21. 0.45
22. $\frac{5}{8}$
23. 0.3
24. 3
25. 1
26. 0.2
27. 0.6
28. 1
29. 1
30. $\frac{1}{3}$
31. $\frac{5}{6}$ / added denominators not LCM
32. 0.45 / correct, but check subtraction
33. $\frac{5}{16}$ / divided not multiplied
34. $0.5 + 0.2 = 0.5$
35. 1.6
36. 0.4
37. $\frac{1}{3}$
38. 1.25

39. Varies

Accept equivalent forms. Reflection varies.