

## Fractions

### Skill 5 - 12A

#### Add and Subtract Like Fractions

Test question 12A

Add fractions with like denominators.

**Directions:** Add. Write the answer in simplest form.

$$\frac{2}{8} + \frac{4}{8}$$

$$\frac{2}{8} + \frac{4}{8} = \frac{2 + 4}{8} = \frac{6}{8}$$

$$\text{Simplify } \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$$

When fractions have like denominators, add the numerators and the denominator stays the same.

**Directions:** Subtract. Write the answer in simplest form.

$$\frac{5}{6} - \frac{2}{6}$$

$$\frac{5}{6} - \frac{2}{6} = \frac{5 - 2}{6} = \frac{3}{6}$$

$$\text{Simplify } \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$$

When fractions have like denominators, subtract the numerators and the denominator stays the same.

**Directions:** Add. Write the answer in simplest form.

Example A

$$\frac{1}{10} + \frac{4}{10} = \frac{5}{10}$$

To simplify, divide the numerator and the denominator by a common factor of 5 and 10.

$$\text{Simplify: } \frac{5 \div 5}{10 \div 5} = \frac{1}{2}$$

Example B

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

The numerator and denominator have 1 as their only common factor so  $\frac{2}{3}$  is in simplest form.

1.  $\frac{3}{6} + \frac{1}{6}$

2.  $\frac{2}{8} + \frac{2}{8}$

3.  $\frac{2}{12} + \frac{4}{12}$

4.  $\frac{1}{6} + \frac{1}{6}$

5.  $\frac{1}{4} + \frac{3}{4}$

6.  $\frac{1}{4} + \frac{1}{4}$

7.  $\frac{1}{5} + \frac{1}{5}$

8.  $\frac{4}{9} + \frac{2}{9}$

9.  $\frac{2}{7} + \frac{4}{7}$

10.  $\frac{3}{9} + \frac{5}{9}$

## Fractions

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#### Add and Subtract Like Fractions

**Directions:** Add. Write the answer in simplest form.

11. $\frac{2}{5} + \frac{2}{5}$	12. $\frac{6}{12} + \frac{2}{12}$
13. $\frac{5}{10} + \frac{3}{10}$	14. $\frac{1}{6} + \frac{1}{6}$
15. $\frac{3}{7} + \frac{1}{7}$	16. $\frac{1}{9} + \frac{7}{9}$
17. $\frac{1}{6} + \frac{5}{6}$	18. $\frac{2}{9} + \frac{3}{9}$
19. $\frac{2}{3} + \frac{1}{3}$	20. $\frac{1}{10} + \frac{2}{10}$

**Directions:** Subtract. Write the answer in simplest form.

21. $\frac{3}{4} - \frac{1}{4}$	22. $\frac{8}{12} - \frac{2}{12}$
23. $\frac{5}{7} - \frac{4}{7}$	24. $\frac{7}{9} - \frac{1}{9}$
25. $\frac{3}{8} - \frac{1}{8}$	26. $\frac{4}{5} - \frac{1}{5}$
27. $\frac{8}{12} - \frac{6}{12}$	28. $\frac{3}{6} - \frac{1}{6}$
29. $\frac{4}{9} - \frac{1}{9}$	30. $\frac{8}{10} - \frac{4}{10}$
31. $\frac{6}{9} - \frac{1}{9}$	32. $\frac{3}{5} - \frac{2}{5}$
33. $\frac{5}{12} - \frac{2}{12}$	34. $\frac{7}{8} - \frac{6}{8}$
35. $\frac{4}{5} - \frac{3}{5}$	36. $\frac{3}{8} - \frac{1}{8}$
37. $\frac{4}{10} - \frac{3}{10}$	38. $\frac{5}{6} - \frac{2}{6}$
39. $\frac{3}{7} - \frac{2}{7}$	40. $\frac{3}{4} - \frac{2}{4}$

Answers: Skill 12A, Grade 5

1.  $\frac{2}{3}$

2.  $\frac{1}{2}$

3.  $\frac{1}{2}$

4.  $\frac{1}{3}$

5. 1

6.  $\frac{1}{2}$

7.  $\frac{2}{5}$

8.  $\frac{2}{3}$

9.  $\frac{6}{7}$

10.  $\frac{8}{9}$

11.  $\frac{4}{5}$

12.  $\frac{2}{3}$

13.  $\frac{4}{5}$

14.  $\frac{1}{3}$

15.  $\frac{4}{7}$

16.  $\frac{8}{9}$

17. 1

18.  $\frac{5}{9}$

19. 1

20.  $\frac{3}{10}$

21.  $\frac{1}{2}$

22.  $\frac{1}{2}$

23.  $\frac{1}{7}$

24.  $\frac{2}{3}$

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

26.  $\frac{3}{5}$

27.  $\frac{1}{6}$

28.  $\frac{1}{3}$

29.  $\frac{1}{3}$

30.  $\frac{2}{5}$

31.  $\frac{5}{9}$

32.  $\frac{1}{5}$

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

34.  $\frac{1}{8}$

35.  $\frac{1}{5}$

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

37.  $\frac{1}{10}$

38.  $\frac{1}{2}$

39.  $\frac{1}{7}$

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