
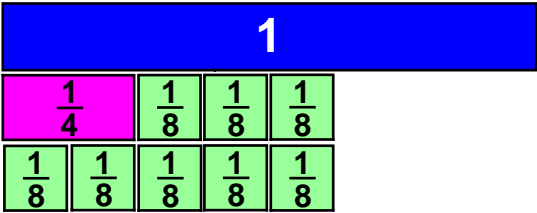


Fractions Skill 4 - 23D

Add Unlike Fractions

Add fractions with unlike denominators using fraction bars.

Example**Directions:** Add. $\frac{1}{4} + \frac{3}{8}$ (this is the answer to test question 23D)

Step 1	Step 2
Place one whole bar as shown below. Place one $\frac{1}{4}$ bar and three $\frac{1}{8}$ bars under the whole bar.	Next, find the common denominator. Look at the third row. Two $\frac{1}{8}$ bars fit exactly under the $\frac{1}{4}$ bar. Next, place three more $\frac{1}{8}$ bars as shown below and you can see that $\frac{1}{4} + \frac{3}{8} = \frac{5}{8}$.
	

Directions: Add. Use fraction bars.

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

2. $\frac{1}{4} + \frac{1}{2}$

3. $\frac{3}{9} + \frac{1}{3}$

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

5. $\frac{1}{2} + \frac{2}{5}$

6. $\frac{4}{8} + \frac{1}{4}$

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

8. $\frac{1}{8} + \frac{3}{4}$

9. $\frac{4}{6} + \frac{1}{12}$

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

11. $\frac{2}{5} + \frac{3}{10}$

12. $\frac{1}{2} + \frac{2}{4}$

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

14. $\frac{2}{9} + \frac{1}{3}$

15. $\frac{3}{12} + \frac{1}{6}$

16. $\frac{3}{10} + \frac{1}{2}$

17. $\frac{3}{8} + \frac{2}{4}$

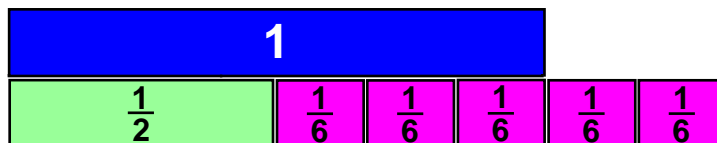
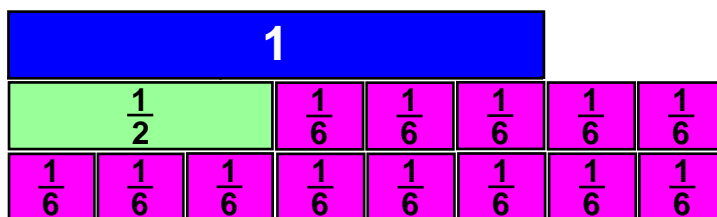
18. $\frac{2}{3} + \frac{1}{4}$

Fractions Skill 4 - 23D

Add Unlike Fractions

Add fractions with unlike denominators using fraction bars.

Example

Directions: Add. $\frac{1}{2} + \frac{5}{6}$ Place one whole bar as shown below. Place one $\frac{1}{2}$ bar and five $\frac{1}{6}$ bars under the whole bar.Next, find the common denominator. Look at the third row. Three $\frac{1}{6}$ bars fit exactly under the $\frac{1}{2}$ bar. Next, placefive more $\frac{1}{6}$ bars as shown below and you can see that $\frac{1}{2} + \frac{5}{6} = \frac{3}{6} + \frac{5}{6} = \frac{8}{6}$ or $1\frac{2}{6}$ $1\frac{2}{6}$ in simplest form is $1\frac{1}{3}$. To see this, place a $\frac{1}{3}$ fraction bar under the last two $\frac{1}{6}$ bars (on your model).

Directions: Add. Use fraction bars. Write answer in simplest form.

19. $\frac{2}{3} + \frac{3}{6}$

20. $\frac{3}{4} + \frac{1}{2}$

21. $\frac{4}{9} + \frac{2}{3}$

22. $\frac{4}{10} + \frac{4}{5}$

23. $\frac{1}{2} + \frac{3}{5}$

24. $\frac{4}{8} + \frac{3}{4}$

25. $\frac{4}{6} + \frac{1}{2}$

26. $\frac{5}{8} + \frac{2}{4}$

27. $\frac{2}{6} + \frac{8}{12}$

28. $\frac{2}{3} + \frac{2}{6}$

29. $\frac{2}{5} + \frac{7}{10}$

30. $\frac{1}{2} + \frac{2}{4}$

31. $\frac{7}{12} + \frac{3}{6}$

32. $\frac{5}{9} + \frac{2}{3}$

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

Answers: Skill 23D, Grade 5

1. $\frac{5}{6}$

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

3. $\frac{6}{9}$ or $\frac{2}{3}$

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

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

6. $\frac{6}{8}$ or $\frac{3}{4}$

7. $\frac{4}{6}$ or $\frac{2}{3}$

8. $\frac{7}{8}$

9. $\frac{9}{12}$ or $\frac{3}{4}$

10. $\frac{3}{6}$ or $\frac{1}{2}$

11. $\frac{7}{10}$

12. $\frac{4}{4}$ or 1

13. $\frac{5}{6}$

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

15. $\frac{5}{12}$

16. $\frac{8}{10}$ or $\frac{4}{5}$

17. $\frac{7}{8}$

18. $\frac{11}{12}$

19. $\frac{7}{6} = 1\frac{1}{6}$

20. $\frac{5}{4} = 1\frac{1}{4}$

21. $\frac{10}{9} = 1\frac{1}{9}$

22. $\frac{12}{10} = 1\frac{2}{10}$ or $1\frac{1}{5}$

23. $\frac{11}{10} = 1\frac{1}{10}$

24. $\frac{10}{8} = 1\frac{2}{8}$ or $1\frac{1}{4}$

25. $\frac{7}{6} = 1\frac{1}{6}$

26. $\frac{9}{8} = 1\frac{1}{8}$

27. $\frac{12}{12} = 1$

28. $\frac{6}{6} = 1$

29. $\frac{11}{10} = 1\frac{1}{10}$

30. $\frac{4}{4} = 1$

31. $\frac{13}{12} = 1\frac{1}{12}$

32. $\frac{11}{9} = 1\frac{2}{9}$

33. $\frac{14}{12} = 1\frac{2}{12}$ or $1\frac{1}{6}$