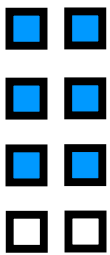
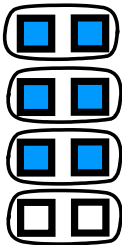


Fractions Skill 4 - 21B

Equivalent Fractions

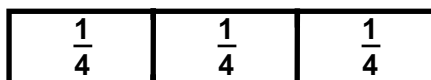
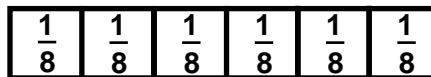
Test question 21B: **Directions:** Choose the fraction that is equivalent to $\frac{6}{8}$. a. $\frac{4}{6}$ b. $\frac{3}{4}$ c. $\frac{7}{16}$

 <p>number shaded $\rightarrow \frac{6}{8}$ number in group $\rightarrow \frac{6}{8}$</p>	 <p>number shaded $\rightarrow \frac{3}{4}$ number in group $\rightarrow \frac{3}{4}$</p>	<p>So, $\frac{6}{8}$ is equivalent to $\frac{3}{4}$</p>
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You can find equivalent fractions by using fractions bars or by multiplying. You can sometimes divide to find equivalent fractions.

Use Fraction Bars

Line up the fraction models as shown and you can see that $\frac{6}{8}$ and $\frac{3}{4}$ are equivalent fractions.



Line up fraction bars as shown above. Next, line up $\frac{1}{12}$ bars under the bars you just lined up. What other equivalent fraction did you find?

Use Multiplication

Write a fraction that is equivalent to $\frac{1}{2}$. Multiply the numerator and the denominator by the same number.

Multiply by 2

$$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4}$$

So, $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent fractions.

Use Division

Write a fraction that is equivalent to $\frac{6}{12}$. Divide the numerator and the denominator by the same number.

Try dividing by 3.

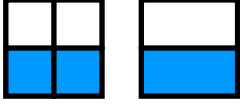
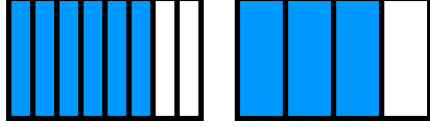
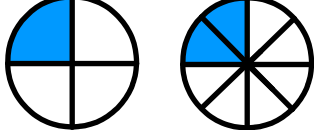
$$\frac{6}{12} \times \frac{3}{3} = \frac{2}{4}$$

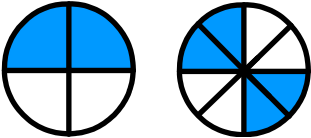
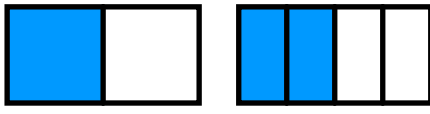
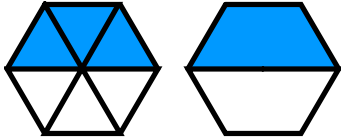
So, $\frac{6}{12}$ and $\frac{2}{4}$ are equivalent fractions.

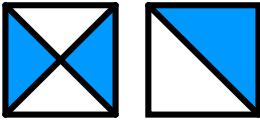
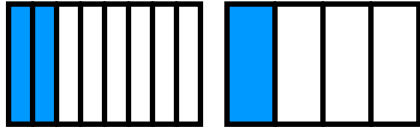
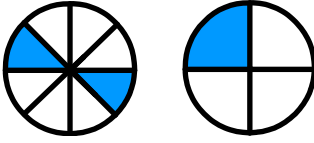
Fractions Skill 4 - 21B

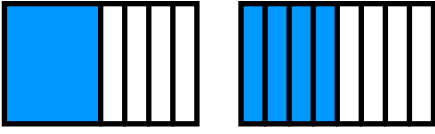
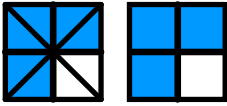
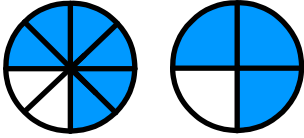
Equivalent Fractions


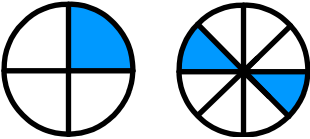
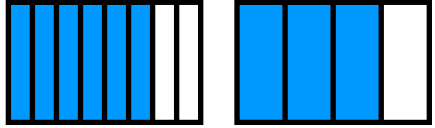
Directions: Fill in the missing numerator or denominator to name equivalent fractions.

<p>1.</p>  $\frac{2}{4} = \frac{\quad}{2}$	<p>2.</p>  $\frac{6}{8} = \frac{\quad}{4}$	<p>3.</p>  $\frac{1}{4} = \frac{\quad}{8}$
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<p>4.</p>  $\frac{2}{4} = \frac{\quad}{8}$	<p>5.</p>  $\frac{1}{2} = \frac{\quad}{4}$	<p>6.</p>  $\frac{3}{6} = \frac{\quad}{2}$
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<p>7.</p>  $\frac{2}{4} = \frac{\quad}{2}$	<p>8.</p>  $\frac{\quad}{8} = \frac{1}{4}$	<p>9.</p>  $\frac{2}{8} = \frac{\quad}{4}$
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<p>10.</p>  $\frac{1}{2} = \frac{\quad}{8}$	<p>11.</p>  $\frac{\quad}{8} = \frac{3}{4}$	<p>12.</p>  $\frac{6}{\quad} = \frac{3}{4}$
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<p>13.</p>  $\frac{\quad}{4} = \frac{\quad}{2}$	<p>14.</p>  $\frac{1}{\quad} = \frac{\quad}{8}$	<p>15.</p>  $\frac{6}{\quad} = \frac{\quad}{4}$
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Fractions Skill 4 - 21B

Equivalent Fractions

Example: Multiply to find an equivalent fraction.

$$\frac{1}{2} \times \frac{2}{\square} = \frac{2}{\square}$$

Remember, one way to find an equivalent fraction is to multiply the numerator and denominator by the same number, so, write the number 2 in the first box and then you can fill in the second box.

Directions: Fill in the boxes to complete each below to find an equivalent fraction.

16. $\frac{3}{4} \times \frac{3}{\square} = \frac{9}{\square}$

17. $\frac{2}{3} \times \frac{2}{\square} = \frac{4}{\square}$

18. $\frac{3}{5} \times \frac{3}{\square} = \frac{9}{\square}$

19. $\frac{1}{8} \times \frac{\square}{2} = \frac{\square}{16}$

20. $\frac{4}{5} \times \frac{\square}{\square} = \frac{\square}{10}$

21. $\frac{1}{3} \times \frac{\square}{\square} = \frac{\square}{15}$

Example: Divide to find an equivalent fraction.

$$\frac{8}{16} \div \frac{4}{\square} = \frac{2}{\square}$$

Another way to find an equivalent fraction is to divide the numerator and denominator by the same number, so, write the number 4 in the first box and then you can fill in the second box.

Directions: Fill in the boxes to complete each problem below and find an equivalent fraction.

22. $\frac{9}{12} \div \frac{3}{\square} = \frac{3}{\square}$

23. $\frac{9}{15} \div \frac{3}{\square} = \frac{3}{\square}$

24. $\frac{5}{10} \div \frac{5}{\square} = \frac{1}{\square}$

25. $\frac{8}{12} \div \frac{4}{\square} = \frac{2}{\square}$

26. $\frac{3}{27} \div \frac{3}{\square} = \frac{\square}{9}$

27. $\frac{8}{32} \div \frac{4}{\square} = \frac{2}{\square}$

28. $\frac{7}{49} \div \frac{7}{\square} = \frac{1}{\square}$

29. $\frac{10}{35} \div \frac{5}{\square} = \frac{2}{\square}$

30. $\frac{8}{56} \div \frac{\square}{\square} = \frac{2}{\square}$

Fractions Skill 4 - 21B

Equivalent Fractions

Directions: Write an equivalent fraction for each. Use fraction bars, multiplication or division.

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

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

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

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

35. $\frac{2}{10}$

36. $\frac{4}{16}$

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

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

39. $\frac{8}{12}$

40. $\frac{4}{8}$

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

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

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

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

45. $\frac{6}{10}$

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

47. $\frac{7}{14}$

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

Answer Key: Grade 4, Skill 21B

1. 1	2. 3	3. 2	4. 4	5. 2	6. 1
7. 1	8. 2	9. 1	10. 4	11. 6	12. 8
13. 2,1	14. 4, 2	15. 8,3	16. 3,12	17. 2,6	18. 3,15
19. 2,2	20. 2,8,2	21. 5,5,5	22. 3,4	23. 3,5	24. 5,2
25. 4,3	26. 1,3	27. 4,8	28. 7,7	29. 5,7	30. 4,4,14

The following have more than one answer.

31. $\frac{2}{4}$	32. $\frac{2}{6}$	33. $\frac{2}{16}$	34. $\frac{4}{10}$	35. $\frac{1}{5}$	36. $\frac{1}{4}$
37. $\frac{4}{6}$	38. $\frac{1}{4}$	39. $\frac{2}{3}$	40. $\frac{1}{2}$	41. $\frac{1}{2}$	42. $\frac{6}{10}$
43. $\frac{4}{14}$	44. $\frac{10}{12}$	45. $\frac{3}{5}$	46. $\frac{1}{2}$	47. $\frac{1}{2}$	48. $\frac{6}{8}$