

## Fractions: Skill 5 - 15A

## Reciprocals

Test question 15A.  
Write the reciprocal of each number.

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

2.  $2\frac{3}{4}$  answer  $\frac{4}{11}$

Any number times its reciprocal equals one.

The reciprocal of a number is needed when dividing by a fraction. To create the reciprocal of a fraction, write the new fraction exchanging the numerator and the denominator.

The reciprocal of  $\frac{2}{3}$  is  $\frac{3}{2}$ . The product of a number and its reciprocal equals 1.

$$\frac{2}{3} \times \frac{3}{2} = \frac{6}{6} = 1$$

Find the reciprocal of $2\frac{1}{3}$	Find the reciprocal of 5.	Find the reciprocal of $\frac{3}{16}$
$2\frac{1}{3} = \frac{7}{3}$ The reciprocal of $2\frac{1}{3}$ or $\frac{7}{3}$ is $\frac{3}{7}$ $\frac{7}{3} \times \frac{3}{7} = \frac{42}{42} = 1$	The reciprocal of 5 or $\frac{5}{1}$ is $\frac{1}{5}$ . $\frac{5}{1} \times \frac{1}{5} = \frac{5}{5} = 1$	The reciprocal of $\frac{3}{16}$ is $\frac{16}{3}$ . $\frac{\cancel{3}}{16} \times \frac{16}{\cancel{3}} = \frac{1}{1} = 1$

**Directions:** Write the reciprocal of each number.

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

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

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

4. 2

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

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

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

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

9.  $\frac{12}{7}$

10. 8

11.  $\frac{5}{8}$

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

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

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

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

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

## Fractions: Skill 5 - 15A

**Reciprocals****Directions:** Write the reciprocal of each number.

17.  $2\frac{1}{6}$

18. 10

19.  $\frac{1}{13}$

20. 5

21.  $3\frac{1}{4}$

22. 16

23.  $5\frac{3}{4}$

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

25. 32

26.  $8\frac{2}{3}$

27.  $7\frac{1}{7}$

28.  $2\frac{7}{16}$

29.  $2\frac{4}{5}$

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

31.  $4\frac{3}{4}$

32.  $2\frac{4}{9}$

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

34.  $\frac{27}{4}$

35.  $2\frac{9}{8}$

36.  $3\frac{1}{7}$

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

38. 12

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

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

41.  $\frac{12}{17}$

42. 24

43.  $7\frac{4}{9}$

44.  $8\frac{1}{8}$

45.  $\frac{1}{12}$

46.  $3\frac{3}{16}$

47.  $\frac{25}{3}$

48. 7

49.  $6\frac{5}{6}$

50.  $7\frac{5}{8}$

51.  $6\frac{3}{9}$

52.  $\frac{1}{20}$

53. 6

54.  $\frac{1}{24}$

55. 18

56.  $9\frac{7}{9}$

Answers: Skill 15A, Grade 5

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

2. 8

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

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

5. 3

6. 6

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

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

9.  $\frac{7}{12}$

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

11.  $\frac{8}{5}$

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

13. 12

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

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

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

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

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

19. 13

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

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

22.  $\frac{1}{16}$

23.  $\frac{4}{23}$

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

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

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

27.  $\frac{7}{50}$

28.  $\frac{16}{39}$

29.  $\frac{5}{24}$

30. 3

31.  $\frac{4}{19}$

32.  $\frac{9}{22}$

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

34.  $\frac{4}{27}$

35.  $\frac{8}{25}$

36.  $\frac{7}{22}$

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

38.  $\frac{1}{12}$

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

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

41.  $\frac{17}{12}$

42.  $\frac{1}{24}$

43.  $\frac{9}{67}$

44.  $\frac{8}{65}$

45. 12

46.  $\frac{16}{51}$

47.  $\frac{3}{25}$

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

49.  $\frac{6}{41}$

50.  $\frac{8}{61}$

51.  $\frac{9}{57}$

52. 20

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

54. 24

55.  $\frac{1}{18}$

56.  $\frac{9}{88}$