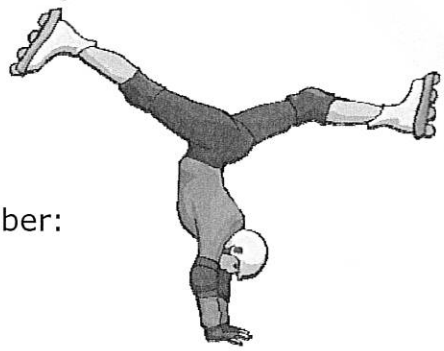
Name _____ Date _____

Reciprocals - Step-by-Step Lesson

a. Give the reciprocal for the following fraction:

$\frac{2}{5}$



b. Write the reciprocal of the following mixed number:

$3\frac{3}{4}$

Explanation:

A reciprocal of a fraction is just when the numerator and denominator switch places.

A normal fraction is set up like this: Numerator

Denominator

The reciprocal of that fraction would be: Denominator

Numerator

a. We would just flip the numerator and denominator: $\frac{2}{5}$ that would equal $\frac{5}{2}$

b. We would follow the same pattern, but we would first convert the mixed number to an improper fraction:

$3\frac{3}{4} = \frac{15}{4}$

Now take the reciprocal of $\frac{15}{4}$ by flipping the numerator and denominator $\frac{4}{5}$.

K5 Learning

Grade 5 Math Word Problems Worksheet

Read and answer each question. Show your work!

Adding and Subtracting Fractions Word Problems #2

1. There is 3/8 of a pizza in one box and 1/4 of a pizza in another box. How much do you have altogether?

2. 1/10 of the M&M's in a bag are red and 1/5 are blue. What fraction of all the M&M's are red and blue?

3. Susan swims a race in 29 3/10 seconds. Patty swims the race in 33 9/10 seconds. How much faster was Susan than Patty?

4. A pitcher contains 2 3/4 pints of orange juice. After you pour 5/8 of a pint into a glass, How much is left in the pitcher?

5. Jackie has 1/3 of a Hershey bar. Steven has 4/12 of a Hershey bar. How much do they have together?

Finding Reciprocals Name:

Find the reciprocal to make each equation true.

Ex) $\frac{3}{6} \times \frac{6}{3} = 1$

1) $\frac{1}{2} \times \quad = 1$

2) $\frac{2}{8} \times \quad = 1$

3) $\frac{14}{6} \times \quad = 1$

4) $\frac{2}{5} \times \quad = 1$

5) $\frac{9}{10} \times \quad = 1$

6) $\frac{9}{7} \times \quad = 1$

7) $5 \times \quad = 1$

8) $\frac{12}{9} \times \quad = 1$

9) $6 \times \quad = 1$

10) $\frac{15}{10} \times \quad = 1$

11) $\frac{25}{9} \times \quad = 1$

12) $\frac{13}{7} \times \quad = 1$

13) $2 \times \quad = 1$

14) $\frac{2}{10} \times \quad = 1$

15) $8 \times \quad = 1$

16) $7 \times \quad = 1$

17) $\frac{10}{7} \times \quad = 1$

18) $\frac{7}{8} \times \quad = 1$

19) $10 \times \quad = 1$

Answers

Ex. $\frac{6}{3}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____

1-10	95	89	84	79	74	68	63	58	53	47
11-19	42	37	32	26	21	16	11	5	0	

Multiplying fractions (denominators 2-12)

Grade 5 Fractions Worksheet

Find the product.

1. $\frac{5}{7} \times \frac{2}{3} =$ _____

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

3. $\frac{9}{10} \times \frac{1}{4} =$ _____

4. $\frac{2}{9} \times \frac{5}{7} =$ _____

5. $\frac{6}{11} \times \frac{5}{12} =$ _____

6. $\frac{5}{6} \times \frac{1}{3} =$ _____

7. $\frac{8}{10} \times \frac{10}{12} =$ _____

8. $\frac{4}{6} \times \frac{1}{5} =$ _____

9. $\frac{4}{5} \times \frac{1}{10} =$ _____

10. $\frac{2}{4} \times \frac{10}{11} =$ _____

11. $\frac{4}{9} \times \frac{5}{6} =$ _____

12. $\frac{8}{10} \times \frac{1}{3} =$ _____

13. $\frac{1}{11} \times \frac{10}{12} =$ _____

14. $\frac{2}{5} \times \frac{4}{7} =$ _____

Multiplying fractions practice

Grade 5 Fractions Worksheet

Calculate.

1. $\frac{1}{3} \times 2\frac{2}{3} =$ _____

2. $\frac{3}{4} \times 1\frac{1}{4} =$ _____

3. $1\frac{2}{8} \times 2\frac{4}{8} =$ _____

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

5. $1\frac{5}{9} \times 1\frac{3}{9} =$ _____

6. $1\frac{1}{2} \times 2\frac{1}{2} =$ _____

7. $1\frac{16}{25} \times 1\frac{3}{25} =$ _____

8. $1\frac{11}{15} \times \frac{1}{15} =$ _____

9. $1\frac{16}{20} \times 1\frac{14}{20} =$ _____

10. $\frac{3}{4} \times \frac{3}{4} =$ _____

11. $1\frac{4}{6} \times 1\frac{5}{6} =$ _____

12. $\frac{5}{10} \times \frac{5}{10} =$ _____

13. $2\frac{11}{12} \times \frac{9}{12} =$ _____

14. $1\frac{12}{16} \times 2\frac{7}{16} =$ _____

15. $2\frac{7}{16} \times 2\frac{5}{16} =$ _____

16. $\frac{1}{8} \times \frac{7}{8} =$ _____

Dividing fractions by fractions

Grade 5 Fractions Worksheet

Find the quotient.

1. $\frac{1}{7} \div \frac{1}{2} =$ _____

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

3. $\frac{7}{11} \div \frac{1}{4} =$ _____

4. $\frac{3}{4} \div \frac{4}{8} =$ _____

5. $\frac{1}{6} \div \frac{7}{12} =$ _____

6. $\frac{1}{3} \div \frac{3}{11} =$ _____

7. $\frac{10}{12} \div \frac{2}{5} =$ _____

8. $\frac{10}{11} \div \frac{3}{7} =$ _____

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

10. $\frac{2}{9} \div \frac{4}{7} =$ _____

Dividing fractions and mixed numbers practice

Grade 5 Fractions Worksheet

Calculate.

1. $1\frac{1}{8} \div \frac{4}{8} =$ _____

2. $\frac{1}{4} \div 1\frac{1}{4} =$ _____

3. $\frac{9}{12} \div \frac{6}{12} =$ _____

4. $\frac{2}{5} \div \frac{4}{5} =$ _____

5. $1\frac{9}{10} \div 1\frac{3}{10} =$ _____

6. $1\frac{1}{2} \div 1\frac{1}{2} =$ _____

7. $1\frac{1}{3} \div 1\frac{1}{3} =$ _____

8. $1\frac{4}{6} \div 1\frac{5}{6} =$ _____

9. $1\frac{1}{5} \div 1\frac{2}{5} =$ _____

10. $1\frac{8}{12} \div 1\frac{9}{12} =$ _____