

Chapter 3-5 Dividing with Fractions

Fractions Review

Add these

$$\frac{7}{12} + \frac{1}{6} = \frac{7}{12} + \frac{2}{12} = \frac{9}{12} = \frac{3}{4}$$

$$\frac{1}{2} + \frac{5}{4} = \frac{2}{4} + \frac{5}{4} = \frac{7}{4} = 1\frac{3}{4}$$

Subtract

$$6\frac{1}{2} - 2\frac{1}{5}$$

$$6\frac{5}{10} - 2\frac{2}{10} = 4\frac{3}{10}$$

$$14 - 5\frac{1}{5}$$

$$13\frac{5}{5} - 5\frac{1}{5} = 8\frac{4}{5}$$

$$3\frac{7}{8} \times 4\frac{1}{3}$$

$$\frac{31}{8} \times \frac{13}{3} = \frac{403}{24} = 16\frac{19}{24}$$

$$\frac{1}{19}$$

Chapter 3-5 Dividing with Fractions

Chapter 3-5 Dividing Fractions and Mixed Numbers

SWBAT: solve problems dividing with fractions and mixed numbers

Vocabulary: Reciprocal an inverse relationship to a fraction.

Flipit

$$a) \frac{1}{2} = \frac{2}{1} \quad b) \frac{3}{4} = \frac{4}{3}$$

$$c) 12 \frac{1}{12} \quad d) \frac{17}{8} = \frac{8}{17}$$

Dividing Fractions

$$\frac{2}{3} \div \frac{5}{6}$$

Multiply its Reciprocal

Always, "flip the second fraction!"

$$\frac{2}{3} \times \frac{6}{5} = \frac{4}{5}$$

$$\frac{7}{8} \div \frac{1}{4}$$

$$2\frac{7}{8} \times \frac{4}{1} = 2\frac{7}{2}$$

Chapter 3-5 Dividing with Fractions

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

$$\frac{14}{1} \times \frac{10}{7} = \frac{20}{1} = 20$$

$$9\frac{1}{2} \div 2\frac{3}{4}$$

1.) Change Mixed to Improper

$$\frac{19}{2} \div \frac{11}{4} = \frac{19}{2} \times \frac{4}{11} = \frac{38}{11}$$
$$3\frac{5}{11}$$

$$3\frac{9}{16} \div 3$$

Chapter 3-5 Dividing with Fractions

Do Now!

Joanne has $13\frac{1}{2}$ yd of material to make costumes. Each complete costume requires $1\frac{1}{2}$ yd for the top and $\frac{3}{4}$ yd for the bottom. How many costumes can she make?

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

$$1\frac{2}{4} + \frac{3}{4} = 1\frac{5}{4}$$

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

$$13\frac{1}{2} \div 2\frac{1}{4}$$

$$\frac{27}{2} \div \frac{9}{4}$$

$$3\frac{27}{2} \times \frac{4}{9} = 6$$

Joanne can make 6 costumes.

Chapter 3-5 Dividing with Fractions

Pg 144 ex 9 - 34 all

9.) 8

10.) 4

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

12.) $3\frac{1}{2}$

13.) $2\frac{4}{7}$

14.) $\frac{3}{5}$

15.) $1\frac{1}{8}$

16.) $\frac{2}{3}$

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

18.) $1\frac{3}{4}$

19.) $\frac{9}{10}$

20.) $4\frac{1}{2}$

21.) $\frac{6}{13}$

22.) $\frac{13}{23}$

23.) $1\frac{1}{2}$

24.) $1\frac{1}{7}$

25.) $\frac{12}{23}$

26.) $5\frac{1}{3}$

27.) $\frac{5}{6}$

28.) $3\frac{2}{7}$

29.) $2\frac{5}{6}$

30.) $2\frac{14}{17}$

31.) $3\frac{1}{3}$

32.) $\frac{2}{3}$

33.) 16 min.

34.)

$$\frac{5}{16} \div \frac{1}{2}$$
$$\frac{5}{16} \times \frac{2}{1} = \frac{5}{8}$$