

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Chapter 5 (Applying Fractions)

## Bringing It All Together #1

### Vocabulary Check

Choose the correct term or number in the parenthesis to complete each sentence.

1) To add like fractions, add the (numerators, denominators). \_\_\_\_\_

2) Another word for multiplicative inverse is (reciprocal, denominator). \_\_\_\_\_

3) When dividing by a fraction, multiply by its (value, reciprocal). \_\_\_\_\_

4) Fractions with different denominators are called (like, unlike) fractions. \_\_\_\_\_

5) The multiplicative inverse of  $\frac{5}{6}$  is  $(\frac{6}{5}, -\frac{5}{6})$ . \_\_\_\_\_

6) The mixed number  $2\frac{4}{7}$  can be renamed as  $(2\frac{7}{7}, 1\frac{11}{7})$ . \_\_\_\_\_

7) When multiplying fractions, multiply the numerators and (multiply, keep) the denominators. \_\_\_\_\_

8) The reciprocal of  $\frac{1}{3}$  is (-3, 3). \_\_\_\_\_

9) The fractions  $\frac{4}{16}$  and  $\frac{2}{4}$  are (like, unlike) fractions. \_\_\_\_\_

OVER 

## 5-1 Estimating with Fractions (p. 230-235)

Estimate.

10)  $\frac{4}{5} + \frac{2}{11}$  \_\_\_\_\_

11)  $\frac{9}{10} - \frac{1}{23}$  \_\_\_\_\_

12)  $3\frac{6}{7} \times 2\frac{1}{10}$  \_\_\_\_\_

13)  $16\frac{1}{3} \div 3\frac{8}{9}$  \_\_\_\_\_

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## 5-2 Adding and Subtracting Fractions (p. 236-241)

Add or subtract. Write in simplest form.

14)  $\frac{2}{6} - \frac{1}{6}$  \_\_\_\_\_

15)  $\frac{3}{7} + \frac{9}{14}$  \_\_\_\_\_

16)  $\frac{1}{9} + \frac{5}{9}$  \_\_\_\_\_

17)  $\frac{9}{10} - \frac{3}{10}$  \_\_\_\_\_

18)  $\frac{5}{8} - \frac{5}{12}$  \_\_\_\_\_

19)  $\frac{3}{4} + \frac{7}{20}$  \_\_\_\_\_

- 20) Owen ate  $\frac{1}{8}$  of a pizza Tuesday night. The next day, he ate an additional  $\frac{1}{2}$  of the pizza. What fraction of the pizza has he eaten?

**OVER** →

### 5-3 Adding and Subtracting Mixed Numbers (p. 242-246)

Add or subtract. Write in simplest form.

21)  $3\frac{2}{15} + 6\frac{9}{15}$  \_\_\_\_\_

22)  $4\frac{1}{3} - 2\frac{2}{3}$  \_\_\_\_\_

23)  $8\frac{2}{7} + 1\frac{6}{7}$  \_\_\_\_\_

24)  $7\frac{11}{12} - 4\frac{3}{12}$  \_\_\_\_\_

25)  $7\frac{3}{5} - 5\frac{1}{3}$  \_\_\_\_\_

26)  $5\frac{3}{4} + 1\frac{1}{6}$  \_\_\_\_\_

27)  $3\frac{5}{8} + 11\frac{1}{2}$  \_\_\_\_\_

28)  $4\frac{3}{10} - 2\frac{4}{5}$  \_\_\_\_\_

29) Lucas watched his little sister for  $2\frac{1}{2}$  hours on Friday,  $3\frac{2}{3}$  hours on Saturday, and  $1\frac{3}{4}$  hours on Sunday. How many hours did Lucas watch his little sister?

**OVER** →

## 5-5 Multiplying Fractions and Mixed Numbers (p. 252-257)

Multiply. Write in simplest form.

30)  $\frac{3}{5} \times \frac{2}{7}$  \_\_\_\_\_

31)  $\frac{5}{12} \times \frac{4}{9}$  \_\_\_\_\_

32)  $\frac{3}{5} \times \frac{10}{21}$  \_\_\_\_\_

33)  $4 \times \frac{13}{20}$  \_\_\_\_\_

34)  $2\frac{1}{3} \times \frac{3}{4}$  \_\_\_\_\_

35)  $4\frac{1}{2} \times 2\frac{1}{12}$  \_\_\_\_\_

36) An average slice of American cheese is about  $\frac{1}{8}$  inch thick. What is the height of a package containing 20 slices?

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## 5-7 Dividing Fractions and Mixed Numbers (p. 265-270)

Divide. Write in simplest form.

37)  $\frac{3}{5} \div \frac{6}{7}$  \_\_\_\_\_

38)  $4 \div \frac{2}{3}$  \_\_\_\_\_

39)  $2\frac{3}{4} \div \frac{5}{6}$  \_\_\_\_\_

40)  $\frac{2}{5} \div 3$  \_\_\_\_\_

41)  $4\frac{3}{10} \div 2\frac{1}{5}$  \_\_\_\_\_

42)  $\frac{2}{7} \div \frac{8}{21}$  \_\_\_\_\_

43) How many  $\frac{1}{8}$  inch lengths are in  $6\frac{3}{4}$  inches?

**FINALLY  
DONE**



# Chapter 5 BIT #1 Answer Key

## Vocabulary Check

Choose the correct term or number in the parenthesis to complete each sentence.

- 1) To add like fractions, add the (numerators, denominators). numerators
- 2) Another word for multiplicative inverse is (reciprocal, denominator). reciprocal
- 3) When dividing by a fraction, multiply by its (value, reciprocal). reciprocal
- 4) Fractions with different denominators are called (like, unlike) fractions. unlike
- 5) The multiplicative inverse of  $\frac{5}{6}$  is  $(\frac{6}{5}, -\frac{5}{6})$ .  $\frac{6}{5}$
- 6) The mixed number  $2\frac{4}{7}$  can be renamed as  $(2\frac{7}{7}, 1\frac{11}{7})$ .  $1\frac{11}{7}$
- 7) When multiplying fractions, multiply the numerators and (multiply, keep) the denominators. multiply
- 8) The reciprocal of  $\frac{1}{3}$  is (-3, 3). 3
- 9) The fractions  $\frac{4}{16}$  and  $\frac{2}{4}$  are (like, unlike) fractions. unlike

## 5-1 Estimating with Fractions (p. 230-235)

Estimate.

$$10) \frac{4}{5} + \frac{2}{11} = 1$$

$1 + 0$

$$11) \frac{9}{10} - \frac{1}{23} = 1$$

$1 - 0$

$$12) 3\frac{6}{7} \times 2\frac{1}{10} = 8$$

$4 \times 2$

$$13) 16\frac{1}{3} \div 3\frac{8}{9} = 4$$

$16 \div 4$

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## 5-2 Adding and Subtracting Fractions (p. 236-241)

Add or subtract. Write in simplest form.

$$14) \frac{2}{6} - \frac{1}{6} = \frac{1}{6}$$

$$15) \frac{3}{7} + \frac{9}{14} = 1\frac{1}{14}$$

$$16) \frac{1}{9} + \frac{5}{9} = \frac{2}{3}$$

$$17) \frac{9}{10} - \frac{3}{10} = \frac{3}{5}$$

$$18) \frac{5}{8} - \frac{5}{12} = \frac{5}{24}$$

$$19) \frac{3}{4} + \frac{7}{20} = 1\frac{1}{10}$$

20) Owen ate  $\frac{1}{8}$  of a pizza Tuesday night. The next day, he ate an additional  $\frac{1}{2}$  of the

pizza. What fraction of the pizza has he eaten?  $\frac{5}{8}$  of the pizza

### 5-3 Adding and Subtracting Mixed Numbers (p. 242-246)

Add or subtract. Write in simplest form.

$$21) 3\frac{2}{15} + 6\frac{9}{15} = 9\frac{11}{15}$$

$$22) 4\frac{1}{3} - 2\frac{2}{3} = 1\frac{2}{3}$$

$$23) 8\frac{2}{7} + 1\frac{6}{7} = 10\frac{1}{7}$$

$$24) 7\frac{11}{12} - 4\frac{3}{12} = 3\frac{2}{3}$$

$$25) 7\frac{3}{5} - 5\frac{1}{3} = 2\frac{4}{15}$$

$$26) 5\frac{3}{4} + 1\frac{1}{6} = 6\frac{11}{12}$$

$$27) 3\frac{5}{8} + 11\frac{1}{2} = 15\frac{1}{8}$$

$$28) 4\frac{3}{10} - 2\frac{4}{5} = 1\frac{1}{2}$$

29) Lucas watched his little sister for  $2\frac{1}{2}$  hours on Friday,  $3\frac{2}{3}$  hours on Saturday, and  $1\frac{3}{4}$  hours on Sunday. How many hours did Lucas watch his

little sister?  $7\frac{11}{12}$  hours

## 5-5 Multiplying Fractions and Mixed Numbers (p. 252-257)

Multiply. Write in simplest form.

$$30) \frac{3}{5} \times \frac{2}{7} = \frac{6}{35}$$

$$31) \frac{5}{12} \times \frac{4}{9} = \frac{5}{27}$$

$$32) \frac{3}{5} \times \frac{10}{21} = \frac{2}{7}$$

$$33) 4 \times \frac{13}{20} = 2\frac{3}{5}$$

$$34) 2\frac{1}{3} \times \frac{3}{4} = 1\frac{3}{4}$$

$$35) 4\frac{1}{2} \times 2\frac{1}{12} = 9\frac{3}{8}$$

36) An average slice of American cheese is about  $\frac{1}{8}$  inch thick. What is

the height of a package containing 20 slices?  $2\frac{1}{2}$  inches

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## 5-7 Dividing Fractions and Mixed Numbers (p. 265-270)

Divide. Write in simplest form.

$$37) \frac{3}{5} \div \frac{6}{7} = \frac{7}{10}$$

$$38) 4 \div \frac{2}{3} = 6$$

$$39) 2\frac{3}{4} \div \frac{5}{6} = 3\frac{3}{10}$$

$$40) \frac{2}{5} \div 3 = \frac{2}{15}$$

$$41) 4\frac{3}{10} \div 2\frac{1}{5} = 1\frac{21}{22}$$

$$42) \frac{2}{7} \div \frac{8}{21} = \frac{3}{4}$$

43) How many  $\frac{1}{8}$  inch lengths are in  $6\frac{3}{4}$  inches? **54 lengths**

**FINALLY  
DONE**

