

Name: \_\_\_\_\_

Period: \_\_\_\_\_

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## HW 2-6

## Int 1

## Multiply &amp; Divide Fractions

## Unit 2

Multiply the following fractions. Write each solution in simplest form.

1.  $\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$

7.  $-\frac{12}{20} \left( \frac{4}{9} \right) = -\frac{4}{15}$

2.  $\frac{4}{7} \times \frac{3}{5} =$

8.  $\frac{8}{11} \cdot \frac{33}{40} =$

3.  $-\frac{1}{12} \times \frac{2}{5} = -\frac{1}{30}$

9.  $5\frac{1}{3} \times 2\frac{5}{8} = 14$

4.  $-9 \cdot \left( \frac{1}{2} \right) =$

10.  $2\frac{5}{8} \times 1\frac{3}{7} =$

5.  $-\frac{7}{10} \left( -\frac{4}{14} \right) = \frac{1}{5}$

6.  $\frac{4}{9} \cdot \left( -\frac{6}{7} \right) =$

11.  $3\frac{5}{21} \left( -2\frac{3}{16} \right) = -\frac{85}{12}$

$-7\frac{1}{12}$

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Unit 2

Multiply the following fractions. Write each solution in simplest form.

12.  $-1\frac{11}{14} \cdot \left(-1\frac{6}{15}\right) =$

15.  $\frac{9}{20}(-15) = -\frac{27}{4}$  or  $-6\frac{3}{4}$

13.  $2\frac{6}{25} \cdot \left(-1\frac{11}{24}\right) = -\frac{49}{15}$  or  $-3\frac{4}{15}$

16.  $-4 \left(2\frac{5}{6}\right) =$

14.  $5\frac{1}{11} \cdot 2\frac{7}{24} =$

17. The width of a vegetable garden is  $\frac{1}{3}$  times its length. If the length of the garden is  $7\frac{3}{4}$  feet, what is the width in simplest form?

$$3\frac{1}{12} \text{ feet or } 2\frac{7}{12} \text{ feet}$$

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18. DVD cases are each  $\frac{1}{5}$  inch thick. If James stacks up all 60 of his DVDs, what will be the height in simplest form?

19. Mark left  $\frac{3}{8}$  of a pizza in the refrigerator. On Friday, he ate  $\frac{1}{2}$  of what was left of the pizza. What fraction of the entire pizza did he eat on Friday?

$$\frac{3}{16} \text{ of a pizza}$$

Evaluate the following verbal expressions.

20. one fourth of two thirds

21. three fifths of one sixth

22. two fifths of one half

$$\frac{3}{5} \cdot \frac{1}{6} = \boxed{\frac{1}{10}}$$

Divide the following fractions. Write each solution in simplest form.

23.  $\frac{4}{7} \div \frac{2}{7} = 2$

26.  $\frac{9}{14} \div \frac{16}{21} =$

24.  $-\frac{12}{50} \div \left(-\frac{3}{15}\right) =$

27.  $\frac{3}{7} \div 1\frac{2}{7} = \frac{1}{3}$

25.  $-\frac{11}{8} \div \frac{3}{6} = -\frac{11}{4} \text{ or } -2\frac{3}{4}$

28.  $2\frac{3}{16} \div 3\frac{3}{4} =$

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29.  $-3\frac{3}{8} \div \frac{1}{6} = -8\frac{1}{4}$  or  $-20\frac{1}{4}$

32.  $-2\frac{7}{9} \div \left(2\frac{1}{12}\right) =$

30.  $7 \div 4\frac{5}{11} =$

33.  $10\frac{2}{7} \div \left(-7\frac{1}{5}\right) = -1\frac{3}{7}$  or  $-1\frac{3}{7}$

31.  $-3\frac{3}{5} \div (-9) = 2\frac{2}{5}$

34. William has  $8\frac{1}{4}$  cups of fruit juice. If he divides the juice into  $\frac{3}{4}$  cup servings, how many servings will he have?

35. Cheryl is organizing her book collection. If each book is  $\frac{3}{4}$  inch wide, how many books can fit on a shelf  $5\frac{1}{4}$  feet wide?

7 books