

Name: _____

Period: _____

Score: _____/_____ = _____% = _____

HW 2-6**Int 1****Multiply & Divide Fractions****Unit 2**

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

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

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

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

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

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

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

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

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

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

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

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

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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. $\frac{9}{20} (-15) =$

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

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?

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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?

Evaluate the following verbal expressions.

20. one fourth of two thirds

21. three fifths of one sixth

22. two fifths of one half

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

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

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

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

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

25. $-\frac{11}{8} \div \frac{3}{6} =$

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

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

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

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

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

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

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?