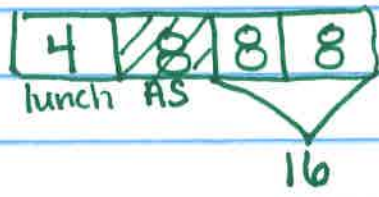


# M4.L7 - Relate Fraction and Decimal Multiplication

AP

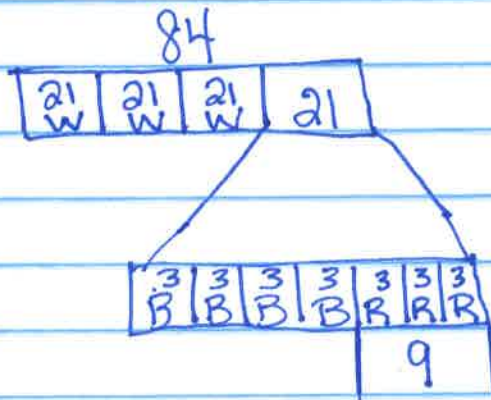
There are 28 tests.



$$16 \div 2 = 8$$

$$(3 \times 8) + 4 = 28$$

There are 84 boats at the marina



$$9 \div 3 = 3$$

$$3 \times 7 = 21$$

$$21 \times 4 = 84$$

$$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6} \quad \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} \quad \frac{1}{2} \times \frac{1}{5} = \frac{1}{10} \quad \frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$$

$$\frac{1}{4} \times \frac{1}{3} = \frac{1}{12} = \frac{1}{4} \quad \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \quad \frac{1}{3} \times \frac{4}{5} = \frac{4}{15}$$

$$\frac{3}{5} \times \frac{3}{4} = \frac{9}{20} \quad \frac{1}{5} \times \frac{2}{3} = \frac{2}{15} \quad \frac{1}{3} \times \frac{1}{2} = \frac{1}{6} = 1$$

$$\frac{1}{10} = 0.1 \quad \frac{2}{10} = 0.2 \quad \frac{7}{10} = 0.7 \quad \frac{999}{100} = 9.99$$

$$\frac{2}{100} = 0.02 \quad \frac{9}{100} = 0.09 \quad \frac{12}{100} = 0.12 \quad \frac{53}{100} = 0.53$$

$$0.03 = \frac{3}{100} \quad 0.11 = \frac{11}{100} \quad 0.87 = \frac{87}{100} \quad \frac{1}{1000} = 0.001$$

$$\frac{13}{10} = 1.3 \quad \frac{52}{10} = 5.2 \quad 7.8 = \frac{78}{10} \quad 9.9 = \frac{99}{10}$$

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$$4 \times \frac{1}{10} = \frac{4 \times 1}{10} = \frac{4}{10} = 0.4$$

$$4 \times 0.1 = 0.4$$

$$2 \times 0.1 = 0.2$$

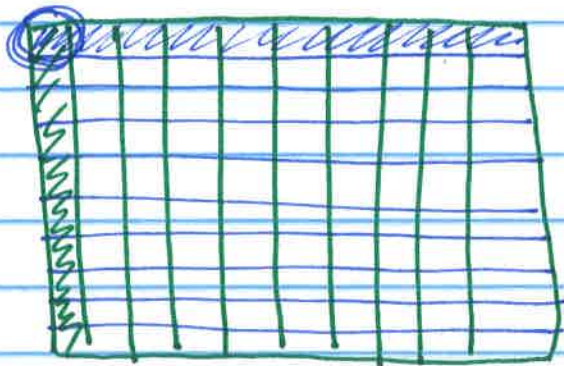
$$2 \times \frac{1}{10} = \frac{2}{10} = 0.2$$

$$6 \times 0.01 = 0.06$$

$$6 \times \frac{1}{100} = \frac{6}{100} = 0.06$$

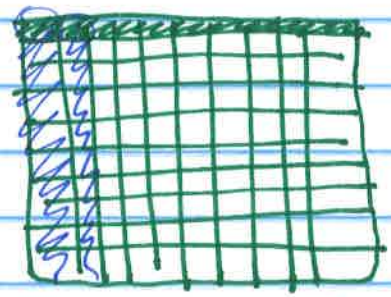
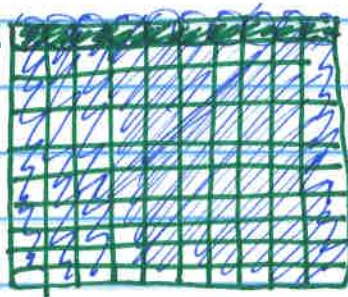
$$0.1 \times 0.1 = 0.01$$

$$\frac{1}{10} \times \frac{1}{10} = \frac{1}{100}$$



$$1.2 \times 0.1 = 0.12$$

$$\frac{12}{10} \times \frac{1}{10} = \frac{12}{100}$$



$$0.1 \times 0.01 = 0.001$$

$$\frac{1}{10} \times \frac{1}{100} = \frac{1}{1000}$$

$$0.5 \times 0.01 = 0.005$$

$$\frac{5}{10} \times \frac{1}{100} = \frac{5}{1000}$$

$$1.5 \times 0.01 = 0.015$$

$$\frac{15}{10} \times \frac{1}{100} = \frac{15}{1000}$$

$$7 \times 0.2 = 1.4$$

$$7 \times \frac{2}{10} = \frac{7 \times 2}{10} = \frac{14}{10}$$

$$0.7 \times 0.2 = 0.14$$

$$\frac{7}{10} \times \frac{2}{10} = \frac{14}{100}$$

$$0.07 \times 0.2 = 0.014$$

$$\frac{7}{100} \times \frac{2}{10} = \frac{14}{1000}$$