Name Date 1. Multiply using fraction form and unit form. Check your answer by counting the decimal places. 2 The first one is done for you. 3 3 tenths a. $3.3 \times 1.6 = \frac{33}{10} \times \frac{16}{10}$ b. 3.3 × 0.8 = × 8 tenths 3 3 tenths $=\frac{33 \times 16}{100} \qquad \frac{\times \quad 1 \ 6}{1 \ 9 \ 8} \\ + \ 3 \ 3 \ 0$ $=\frac{33}{10}\times\frac{8}{10}$ 26 4 hundred ths $=\frac{264}{100}$ 2.64 5 2 8 hundredths $=\frac{528}{100}$ = 2.64 = 5.28 '44 tenths × 32 tenths c. 4.4 × 3.2 = d. 2.2 × 1.6 = 22 tenths $=\frac{22}{10}\times\frac{16}{10}$ $=\frac{44}{10}\times\frac{32}{10}$ $\times 16$ tenths 132 88 1320 1408 hundredths $=\frac{44\times32}{100}$ 220 352 hundredths $= \frac{22 \times 16}{100}$ = 1408 14.08 3.52 $=\frac{352}{100}$ = 14.08 2. Multiply. The first one is partially done for you. = 3.52 a. $3.36 \times 1.4 = \frac{336}{100} \times \frac{14}{10}$ b. 3.35 × 0.7 = 3 3 6 hundredths 3 3 5 hundredths $=\frac{336\times14}{1,000}$ $+\frac{3}{3}\frac{4}{5}\frac{4}{5}$ $+\frac{3}{5}\frac{4}{5}\frac{6}{5}\frac{1$ = 335 x 7 × 7 tenths 2345 Hoousandths = <u>335×7</u> 1000 2.345 $=\frac{4,704}{1,000}$ = 2345 4704 = 4.704= 2.345 404 hundredths 44 tenths × 16 hundredths 264 440 704 thousandths d. 4.4 × 0.16 = c. 4.04 × 3.2 = <u>× 32 tenths</u> 808 12120 12928 thousandths $\frac{404}{100} \times \frac{32}{10}$ $=\frac{44}{10}\times\frac{16}{100}$ $= \frac{404 \times 32}{1000}$ $=\frac{44\times16}{1000}$ 12.928 0.704 = 12928 $=\frac{704}{1000}$ =12.928 = 0.704Lesson 18: Relate decimal and fraction multiplication COMMON engage^{ny} 4.E.88 Date: 10/17/14 CORE

3. Solve using the standard algorithm. Show your thinking about the units of your product. The first one is done for you.

