

To add or Subtract decimals

- ↳ must line up (•) decimal
- ↳ make same length by adding "0" after decimal
- ↳ Remember to regroup or borrow (subtract)

a) $26.7 + 8$

$$\begin{array}{r} 26.7 \\ + 8.0 \\ \hline 34.7 \end{array}$$

no decimal then @ end

b) $0.235 + 6.2$

$$\begin{array}{r} 0.235 \\ + 6.200 \\ \hline 6.435 \end{array}$$

c) $4.3 + 0.27 + 8$

$$\begin{array}{r} 4.300 \\ + 0.270 \\ + 8.000 \\ \hline 12.570 \end{array}$$

Subtract (line up)

a) $2.36 - 0.87$

$$\begin{array}{r} 2.36 \\ - 0.87 \\ \hline 1.49 \end{array}$$

Regroup

b) $24.6 - 0.275$

$$\begin{array}{r} 24.600 \\ - 0.275 \\ \hline 24.325 \end{array}$$

Subtraction for word problems

- ↳ difference
- ↳ how much more

Adding word problems → all together
total sum

Model Multiplication

$$2.3 \times 0.2$$

↓ 2 long ↓ 3 short
↓ 0 long ↓ 2 short



0 ones	0.00
4 tenths	0.40
6 hundredths	0.06
	0.46

$$\begin{array}{r} 46 \\ 7 \\ \hline x 322 \end{array}$$

$$\begin{array}{r} 24 \\ 4 \\ \hline x 35 \\ \hline 120 \\ + 720 \\ \hline 840 \end{array}$$

Multiply Decimals

- ↳ repeated (for word problems)
- ↳ product
- ↳ Do not line up decimal
- ↳ line up last digits

$2.7 \times 3.26 \rightarrow$ Start with longer

$ \begin{array}{r} 3.26 \\ \times 2.7 \\ \hline 2282 \\ + 6520 \\ \hline 8.802 \end{array} $	\rightarrow	has 2 #s after .
	\rightarrow	has 1 # after .
	\rightarrow	has 3 #s after .

Division

$$37 \div 8 = 4.625$$

⇒

8

Handwritten long division of 37.000 by 8. The quotient is 4.625. The steps are as follows:

- 8 goes into 37 four times (4), with a remainder of 5.
- Bring down the first 0 to make 50. 8 goes into 50 six times (6), with a remainder of 2.
- Bring down the second 0 to make 20. 8 goes into 20 two times (2), with a remainder of 4.
- Bring down the third 0 to make 40. 8 goes into 40 five times (5), with a remainder of 0.

yrb

$$12.36 \div 4 \Rightarrow 3.09$$

whole # division

$$\begin{array}{r} 3.09 \\ 4 \overline{) 12.36} \\ \underline{12} \\ 0 \\ \underline{-0} \\ 3 \\ \underline{-36} \\ 0 \end{array}$$

$125.7 \div 0.2$
 must make divisor a whole number
 hint: move decimal in both numbers
 $125.7 \text{ tenths} \div 2 \text{ tenths}$
 change to whole
 then do long division

$$125.7 \div 2$$

$$62.85$$

$$\begin{array}{r}
 62.85 \\
 2 \overline{) 125.70} \\
 \underline{+ 24} \\
 05 \\
 \underline{- 4} \\
 17 \\
 \underline{- 16} \\
 10 \\
 \underline{- 10} \\
 0
 \end{array}$$

→ Worksheet (similar to test)

{ Pg 109 (Last day) } finish after ws
{ # 1, 2, 3 }

Pg 110 # 8 # 11 } Not HW
6 # 9 } Solutions
7 } Pg 357

ones ● tenths
— hundredths
— thousandths