

Do Now:

1) 43×22

2) $603 \div 3$

3) $60 \div 12$

4) $126 \div 18$

Do Now:

The beginning balance was \$83.47. Find the balance at the end of the month.

Date	Transaction	Deposit	Withdrawal
1/02	deposit	\$50 ✓ (Add)	(Subtract)
1/10	groceries		\$75.35 ✓
1/16	bookstore		\$12.95
1/22	deposit	\$112.81	
1/29	movie rentals		\$13.08
1/31	computer game		\$21.98

\$122.92

5.7 Multiplying and Dividing Decimals

7.NS
7.EE

- SWBAT multiply and divide decimals.
- SWBAT understand numbers; compute fluently.

- Calculators: No

Multiplying Decimals

Multiply decimals as you do whole numbers. Then place the decimal point.

Ex.) 2.25×8.9

2 decimal places 1 decimal place → 3 total decimal places

Think of this as 225×89

$$\begin{array}{r}
 225 \\
 \times 89 \\
 \hline
 2025 \\
 + 18000 \\
 \hline
 20025
 \end{array}$$

20.025

20.025

You travel downstream in a raft at a rate of about 4.3 miles per hour. How far will you travel in 2.5 hours? Hint: use formula $d = r * t$

A goose walks at a rate of 1.5 feet per second. How far will it walk in 6 seconds?

1.5 (6) 9 feet in 6 seconds

Find the product.

1. $-7.39 * 2.1$ -15.519

2. $19.62 * 5.07$ 99.4734

3. $-0.85 * (-8)$ 6.8

Dividing Decimals

When you divide by a decimal, multiply both the divisor and the dividend by a power of ten that will make the divisor an integer. *Move the decimal point to the right*

Ex.) $1.44 \div 1.2$

Can never be a decimal

Find the quotient.

a.) $76.25 \div 0.25$

Inside Outside

$$0.25 \overline{)76.25} \rightarrow 25 \overline{)7625}$$

$$\begin{array}{r} 305 \\ 25 \overline{)7625} \\ \underline{-750} \\ 125 \\ \underline{-125} \\ 0 \end{array}$$

b.) $-0.055 \div 2.5$

Neg \div Pos

$$2.5 \overline{)0.055} \rightarrow 25 \overline{)0.550}$$

$$\begin{array}{r} -0.022 \\ 25 \overline{)0.550} \\ \underline{-50} \\ 50 \\ \underline{-50} \\ 0 \end{array}$$

-0.022

c.) $13 \div (-0.65)$ Positive Answer

$$0.65 \overline{)1300} \rightarrow 65 \overline{)1300}$$

$$\begin{array}{r} 20 \\ 65 \overline{)1300} \\ \underline{-130} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

20

Find the quotient.

1. $-6 \div -1.2$

2. $1.6 \div (-0.04)$

3. $0.0126 \div 1.8$

Cesar has 5.375 pounds of hamburger for a cookout. He wants to make quarter-pound (0.25 pound) hamburger patties. How many patties can he make?

Payton wants to mail a first class letter. The cost is \$0.37 for the first ounce and \$0.23 for every ounce after that. How much will it cost to mail a letter that weighs 15 ounces?

Exit Pass 5.7

Place the labels of the steps for dividing decimals in order.

1. C. 2. A. 3. B.

A. Place the decimal point in the quotient so that it lines up with the decimal point in the dividend.

B. Divide.

C. Multiply both divisor and the dividend by the power of ten that will make the divisor a whole number

Brain Blast (for 1 dojo point)

A plane travels from Boston to London in 6.25 hours, a distance of about 3285 miles. The return trip takes 7.5 hours. How many miles per hour faster is the faster speed than the slower speed? How many times as fast?

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg.



Reflection of the Today's Lesson

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Homework

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