

Multiply & Divide Decimals

Unit Test, Form A (page 1 of 2)

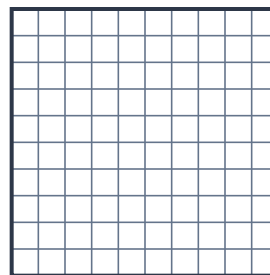
Score _____ / 12

1. Each strip is 1 whole. Write the product.



$$3 \times 0.9 = \underline{\hspace{2cm}}$$

2. The grid is 1 whole. Shade each group on it. Then multiply.



$$2 \times 0.38$$

$$= \underline{\hspace{2cm}}$$

3. Estimate. Then draw the decimal point in each answer.

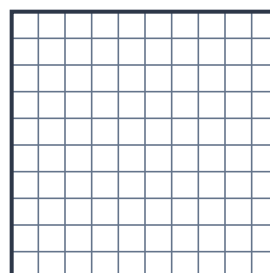
$$6.8 \times 3.4 = 2312$$

Estimate $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$$52.56 \div 8 = 657$$

Estimate $\underline{\hspace{1cm}} \div 8 = \underline{\hspace{1cm}}$

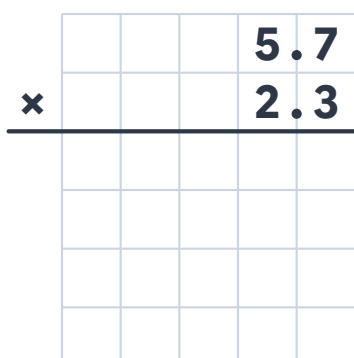
4. The grid is 1 whole. Shade the first number as columns and the second as rows. Then multiply.



$$0.6 \times 0.9$$

$$= \underline{\hspace{2cm}}$$

5. Multiply.



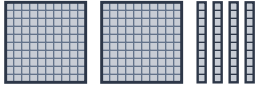
6. Multiply.



Multiply & Divide Decimals

Unit Test, Form A (page 2 of 2)

7. A flat is 1 whole. Share the blocks equally in 4 groups. Then divide.



$$2.4 \div 4 = \underline{\hspace{2cm}}$$

8. Divide.



9. Divide. Show the first one with jumps on the number line.



$$1.8 \div 0.3 = \underline{\hspace{2cm}}$$

$$0.63 \div 0.09 = \underline{\hspace{2cm}}$$

10. Read the story. Then answer.

Max earns \$8.25 an hour for 12 hours. Then he spends \$36.40 on a gift. How much money is left?

Answer: _____

11. Read the story. Then answer.

A tank holds 25.2 liters of water. The water fills 14 bottles equally. How many liters go in each bottle?

Answer: _____ liters

12. Write the missing numbers.

$$86 \times 0.1 = \underline{\hspace{2cm}}$$

$$5.3 \div 0.1 = \underline{\hspace{2cm}}$$

$$54 \times 0.01 = \underline{\hspace{2cm}}$$

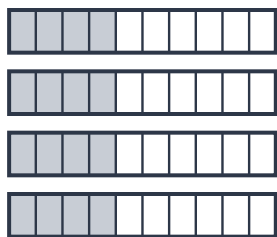
$$0.61 \div 0.01 = \underline{\hspace{2cm}}$$

Multiply & Divide Decimals

Unit Test, Form B (page 1 of 2)

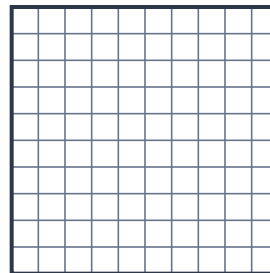
Score _____ / 12

1. Each strip is 1 whole. Write the product.



$$4 \times 0.4 = \underline{\hspace{2cm}}$$

2. The grid is 1 whole. Shade each group on it. Then multiply.



$$5 \times 0.13$$

$$= \underline{\hspace{2cm}}$$

3. Estimate. Then draw the decimal point in each answer.

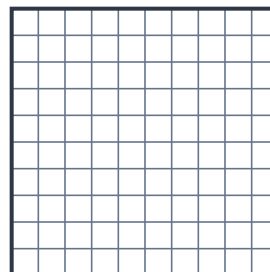
$$7.3 \times 5.8 = 4 \ 2 \ 3 \ 4$$

Estimate $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$$31.85 \div 7 = 4 \ 5 \ 5$$

Estimate $\underline{\hspace{1cm}} \div 7 = \underline{\hspace{1cm}}$

4. The grid is 1 whole. Shade the first number as columns and the second as rows. Then multiply.



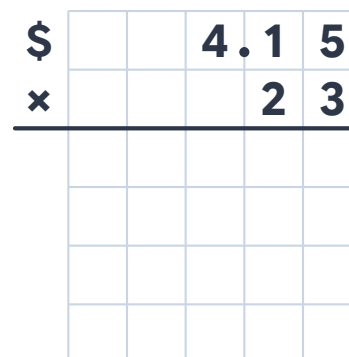
$$0.8 \times 0.3$$

$$= \underline{\hspace{2cm}}$$

5. Multiply.



6. Multiply.



Unit Test, Form B (page 2 of 2)

-

$2.1 \div 3 =$

- [illegible]

-
- A horizontal number line with arrows at both ends. It has three major tick marks labeled 0, 1, and 2. Between each major tick mark, there are ten smaller tick marks, representing intervals of 0.1 units.

$1.6 \div 0.2 =$

0.45 ÷ 0.05 = _____

- A trip costs \$4.75 for each of 22 students. A grant pays \$50 of it. How much does the class still pay?**

Answer:

- A farmer packs **31.5 kilograms** of beans equally into **15 bags**. How many kilograms go in each bag?

Answer: kilograms

- $$93 \times 0.1 =$$

$$6.8 \div 0.1 =$$

$$31 \times 0.01 =$$

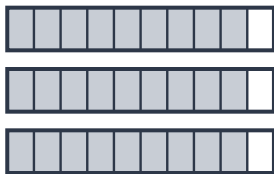
$$0.49 \div 0.01 =$$

Multiply & Divide Decimals

Unit Test, Form A (page 1 of 2)

Score _____ / 12

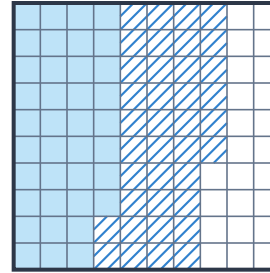
1. Each strip is 1 whole. Write the product.



$$3 \times 0.9 = \underline{2.7}$$

Lesson 6.1 · A decimal times a whole number

2. The grid is 1 whole. Shade each group on it. Then multiply.



$$2 \times 0.38$$

$$= \underline{0.76}$$

One way to shade

Lesson 6.1 · A decimal times a whole number

3. Estimate. Then draw the decimal point in each answer.

$$6.8 \times 3.4 = 2 \underline{3.1} 2$$

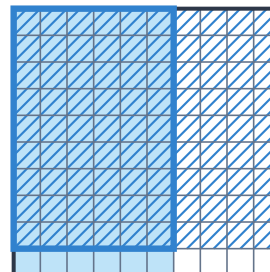
Estimate $\underline{7} \times \underline{3} = \underline{21}$
One way

$$52.56 \div 8 = 6 \underline{.5} 7$$

Estimate $\underline{56} \div 8 = \underline{7}$
One way

Lesson 6.2 · Estimate to place the decimal point

4. The grid is 1 whole. Shade the first number as columns and the second as rows. Then multiply.



$$0.6 \times 0.9$$

$$= \underline{0.54}$$

One way to shade

Lesson 6.3 · Tenths times tenths

5. Multiply.

				5.7	
×				2.3	
			1	7	1
+		1	1	4	0
		1	3.1	1	

Lesson 6.4 · Multiply decimals in columns

6. Multiply.

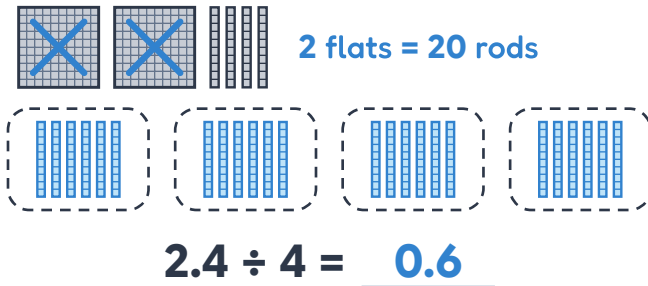
\$			3.4	5	
×			1	7	
		2	4	1	5
+		3	4	5	0
\$		5	8.6	5	

Lesson 6.4 · Multiply decimals in columns

Multiply & Divide Decimals

Unit Test, Form A (page 2 of 2)

7. A flat is 1 whole. Share the blocks equally in 4 groups. Then divide.



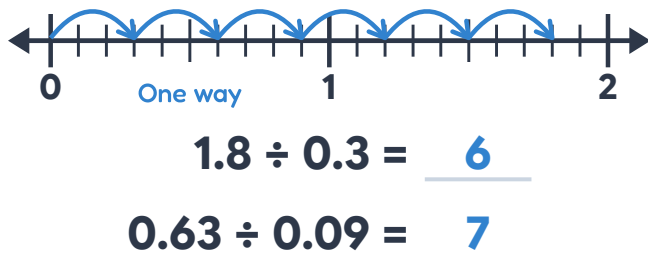
Lesson 6.6 · Divide decimals with models

8. Divide.

$$\begin{array}{r}
 2.94 \\
 16 \overline{) 47.04} \\
 \underline{- 32} \\
 150 \\
 \underline{- 144} \\
 64 \\
 \underline{- 64} \\
 0
 \end{array}$$

Lesson 6.7 · Divide by 2-digit numbers

9. Divide. Show the first one with jumps on the number line.



Lesson 6.8 · Divide by a decimal

10. Read the story. Then answer.

Max earns \$8.25 an hour for 12 hours. Then he spends \$36.40 on a gift. How much money is left?

$$\begin{aligned}
 \$8.25 \times 12 &= \$99.00 \\
 \$99.00 - \$36.40 &= \$62.60
 \end{aligned}$$

Answer: \$62.60

Lesson 6.9 · Decimal stories

11. Read the story. Then answer.

A tank holds 25.2 liters of water. The water fills 14 bottles equally. How many liters go in each bottle?

$$25.2 \div 14 = 1.8$$

Answer: 1.8 liters

Lesson 6.9 · Decimal stories

12. Write the missing numbers.

$$86 \times 0.1 = \underline{8.6}$$

$$5.3 \div 0.1 = \underline{53}$$

$$54 \times 0.01 = \underline{0.54}$$

$$0.61 \div 0.01 = \underline{61}$$

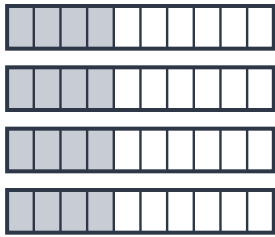
Lesson 6.5 · Times and divided by 0.1 and 0.01

Multiply & Divide Decimals

Unit Test, Form B (page 1 of 2)

Score _____ / 12

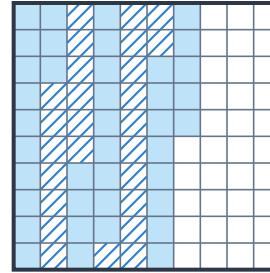
1. Each strip is 1 whole. Write the product.



$$4 \times 0.4 = \underline{1.6}$$

Lesson 6.1 · A decimal times a whole number

2. The grid is 1 whole. Shade each group on it. Then multiply.



$$5 \times 0.13$$

$$= \underline{0.65}$$

One way to shade

Lesson 6.1 · A decimal times a whole number

3. Estimate. Then draw the decimal point in each answer.

$$7.3 \times 5.8 = 42.34$$

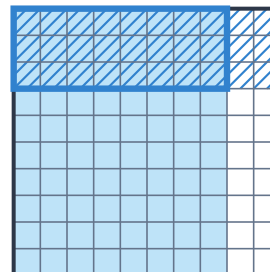
Estimate $\underline{7} \times \underline{6} = \underline{42}$
One way

$$31.85 \div 7 = 4.55$$

Estimate $\underline{35} \div 7 = \underline{5}$
One way

Lesson 6.2 · Estimate to place the decimal point

4. The grid is 1 whole. Shade the first number as columns and the second as rows. Then multiply.



$$0.8 \times 0.3$$

$$= \underline{0.24}$$

One way to shade

Lesson 6.3 · Tenths times tenths

5. Multiply.

$$\begin{array}{r} 6.4 \\ \times 3.8 \\ \hline 512 \\ + 1920 \\ \hline 24.32 \end{array}$$

Lesson 6.4 · Multiply decimals in columns

6. Multiply.

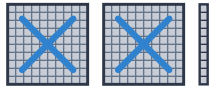
$$\begin{array}{r} \$ 4.15 \\ \times 23 \\ \hline 1245 \\ + 8300 \\ \hline \$ 95.45 \end{array}$$

Lesson 6.4 · Multiply decimals in columns

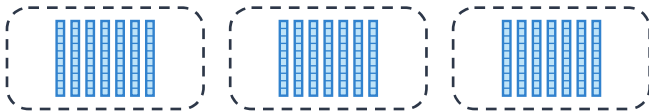
Multiply & Divide Decimals

Unit Test, Form B (page 2 of 2)

7. A flat is 1 whole. Share the blocks equally in 3 groups. Then divide.



2 flats = 20 rods



$$2.1 \div 3 = \underline{0.7}$$

Lesson 6.6 · Divide decimals with models

8. Divide.

$$\begin{array}{r} 2.43 \\ 26 \overline{) 63.18} \\ \underline{- 52} \\ 111 \\ \underline{- 104} \\ 78 \\ \underline{- 78} \\ 0 \end{array}$$

Lesson 6.7 · Divide by 2-digit numbers

9. Divide. Show the first one with jumps on the number line.



$$1.6 \div 0.2 = \underline{8}$$

$$0.45 \div 0.05 = \underline{9}$$

Lesson 6.8 · Divide by a decimal

10. Read the story. Then answer.

A trip costs \$4.75 for each of 22 students. A grant pays \$50 of it. How much does the class still pay?

$$\$4.75 \times 22 = \$104.50$$

$$\$104.50 - \$50 = \$54.50$$

Answer: \$54.50

Lesson 6.9 · Decimal stories

11. Read the story. Then answer.

A farmer packs 31.5 kilograms of beans equally into 15 bags. How many kilograms go in each bag?

$$31.5 \div 15 = 2.1$$

Answer: 2.1 kilograms

Lesson 6.9 · Decimal stories

12. Write the missing numbers.

$$93 \times 0.1 = \underline{9.3}$$

$$6.8 \div 0.1 = \underline{68}$$

$$31 \times 0.01 = \underline{0.31}$$

$$0.49 \div 0.01 = \underline{49}$$

Lesson 6.5 · Times and divided by 0.1 and 0.01