

	Problem 1	Problem 2	Gridded Response
Monday	Mia and two of her friends go out to eat. The bill is \$24.57. How much did each person pay if they split the bill evenly?	Write the following phrase algebraically.  "One-third the sum of a number and five"	<p><i>Problem 1</i></p>

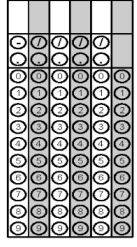
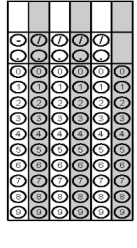
CCM6 and CCM6+ - Quarter 1 - Week 6

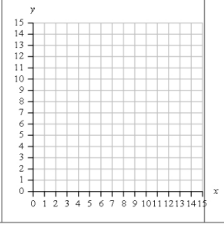
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Tuesday	Evaluate using order of operations. $3^2$ $(5 - 2 \times 2)^2$	What is the value of $x$ ?  Prime Factors of $x$ Prime Factors of 150	<p><i>Problem 1</i></p>
Wednesday	What is the area of this rectangle composed of 9 smaller rectangles that each have a width of $x$ and a height of 2? 	For babysitting her cousins for 4.5 hours, Jennie's aunt pays her \$36. How much did Jennie make each hour? $3 \overline{) 36}$ $45 \overline{) 360}$	<p><i>Problem 2</i></p>

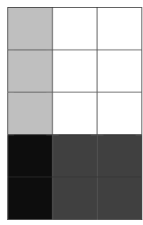
**Grab your notes**      Created by E. Nash

$445$   
 $\overline{) 8}$   
 $760$

CCM6 and CCM6+ - Quarter 1 - Week 6

<b>Thursday</b>	<p>Miranda has \$5.40, but her brother, Ian, has \$7.80. Altogether, how many dimes do they have?</p>	<p>If <math>10^x = 10,000</math>, what is the value of <math>x</math>?</p>	<p style="text-align: center;"><i>Problem 1</i></p> 
<b>Friday</b>	<p>Plot the rectangle with vertices at (1,2), (9,2), (9,10), and (1,10). If diagonals are drawn, what are the coordinates of the point where the diagonals will meet?</p>	<p>What fraction represents the product of <math>\frac{2}{5}</math> and <math>\frac{1}{3}</math>?</p>	<p style="text-align: center;"><i>Problem 2</i></p> 





*Questions adapted from Score21 and SchoolNet*

Created by E. Nash



### DAFFYNTION DECODER

Doughnut:  $\frac{C}{0.32} \frac{R}{0.0666} \frac{A}{2.5} \frac{Z}{4.26} \frac{Y}{5.604} \frac{B}{2.3} \frac{A}{0.13} \frac{N}{2.5} \frac{K}{2.38} \frac{E}{0.0092} \frac{R}{0.94} \frac{R}{0.0666}$

Coffee:  $\frac{B}{0.13} \frac{R}{0.0666} \frac{E}{0.94} \frac{A}{2.5} \frac{K}{0.0092} \frac{F}{5.723} \frac{L}{0.079} \frac{U}{5.718} \frac{L}{70.7} \frac{I}{0.082} \frac{D}{0.27}$

Meteorite:  $\frac{A}{2.5} \frac{S}{46.89} \frac{P}{8.05} \frac{A}{46.95} \frac{C}{2.5} \frac{E}{0.32} \frac{C}{4.29} \frac{H}{0.32} \frac{I}{61.3} \frac{P}{0.082} \frac{P}{46.95}$

TO DECODE THESE THREE DAFFYNTIONS:  
Do each exercise below and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.

(N)  $\frac{2.38}{49.52}$  (S)  $\frac{8.05}{7156.35}$  (E)  $\frac{0.94}{675.64}$  (D)  $\frac{0.27}{912.43}$

(H)  $\frac{61.3}{81490.4}$  (Y)  $\frac{5.604}{3176.812}$  (I)  $\frac{0.082}{910.738}$  (F)  $\frac{0.079}{510.395}$

(Z)  $25.56 \div 6 = 4.26$  (U)  $282.8 \div 4 = 70.7$  (B)  $1.56 \div 12 = 0.13$

(L)  $\frac{40.026}{5.718}$  (R)  $\frac{0.1232}{0.0666}$  (K)  $\frac{0.0738}{8} = 0.0092$  (A)  $\frac{122.5}{49} = 2.5$

(P) Mr. and Mrs. Motor spent 5 nights at the Dew Drop Inn. They paid a total of \$234.75. What was the cost per night?  $\$46.95$

(C) A box containing 18 holiday greeting cards in 3 different designs sold for \$5.76. What was the cost per card?  $\$6.32$

6-55 TOPIC 5-a: Dividing a Decimal by a Whole Number

## The Decimal Dance

1. Once inside the "ballroom"

Once using the long division symbol

2. Whatever the lead does the follow follows

Whatever the first number does, the second number does

3. Before the Division Dip, the dancers pop onto their toes

Before division, the decimal point moves above bar

4. Begin the Division Dip!

Begin dividing as usual!

$$1.4 \div 0.2$$

$$\begin{array}{r} 7. \\ 0.2 \overline{) 1.4} \\ \underline{.14} \\ 0 \end{array}$$

$$37.5 \div 2.5$$

$$\begin{array}{r} 15. \\ 2.5 \overline{) 37.5} \\ \underline{.25} \\ 125 \\ \underline{.125} \\ 0 \end{array}$$

$$924 \div 1.1$$

Handwritten long division for  $924 \div 1.1$ . The dividend is written as 9240 with a decimal point after the 4. The divisor is 1.1. The quotient is 840. The work shows  $1.1 \times 840 = 924.0$ .

$$1.8 \div 3$$

Handwritten long division for  $1.8 \div 3$ . The dividend is 1.8 and the divisor is 3. The quotient is 0.6.

$$14.35 \div 0.7$$

$$\begin{array}{r} 20.5 \\ 7 \overline{) 14.35} \\ \underline{14} \phantom{0} \\ 03 \\ \underline{00} \\ 25 \end{array}$$

$$2.6 \div 1.3$$

$$\begin{array}{r} 2. \\ 13 \overline{) 26} \\ \underline{26} \\ 0 \end{array}$$

$$34.041 \div 4$$

$$\begin{array}{r} 8.51025 \\ 4 \overline{) 34.0410000} \\ \underline{32} \phantom{0} \\ 20 \phantom{0} \\ \underline{20} \phantom{0} \\ 04 \phantom{0} \\ \underline{04} \phantom{0} \\ 01 \phantom{0} \\ \underline{00} \phantom{0} \\ 10 \phantom{0} \\ \underline{08} \phantom{0} \\ 20 \phantom{0} \\ \underline{20} \\ 0 \end{array}$$

$$80.16 \div 8$$

$$5.2 \div 0.5$$

$$62.4 \div .03$$

$$\begin{array}{r} 2080. \\ \hline 03 \overline{) 6240} \end{array}$$

$$7.742 \div .007$$

$$\begin{array}{r} 1106. \\ \hline 007 \overline{) 7742} \end{array}$$



### How Would You Describe Wanda Farr After She Met 3 Lions Deep in the Jungle?



Do the exercises below and find your answers in the rectangle. Shade in each area containing a correct answer. You will discover what happened to Wanda!

**First Two Columns**

- ①  $0.4 \overline{)1.52}$
- ②  $0.9 \overline{)0.243}$
- ③  $1.2 \overline{)63.6}$
- ④  $0.07 \overline{)0.476}$
- ⑤  $0.03 \overline{)1.287}$
- ⑥  $0.05 \overline{)0.416}$
- ⑦  $0.008 \overline{)0.62}$
- ⑧  $0.006 \overline{)1.2444}$
- ⑨  $2.08 + 1.6$
- ⑩  $0.1092 + 0.21$
- ⑪  $58.581 + 0.009$
- ⑫  $\frac{0.24}{0.096}$
- ⑬  $\frac{0.038}{0.5}$
- ⑭  $\frac{7.46}{0.08}$
- ⑮  $\frac{1.316}{32.9}$
- ⑯ A package of M&M's® candies contains 5 colors of M&M's and weighs 1.68 oz. If each candy weighs 0.03 oz, how many are in the package?
- ⑰ A machine uses 2.5 liters of fuel each hour it runs. Its fuel tank was filled with 10 L, but 1.5 L have already been used. How many more hours will the machine run?

TOPIC 5-e: Dividing Decimals

B-60

MIDDLE SCHOOL MATH WITH PIZZAZZ! BOOK B

NOTE: It is necessary to annex zeros in the dividend for some of these exercises, beginning with #6.

### How Would You Describe Wanda Farr After She Met 3 Lions Deep in the Jungle?



Do the exercises below and find your answers in the rectangle. Shade in each area containing a correct answer. You will discover what happened to Wanda!

- ①  $0.4 \overline{)1.52}$  **3.8**
- ②  $0.9 \overline{)0.243}$  **0.27**
- ③  $1.2 \overline{)63.6}$  **53**
- ④  $0.07 \overline{)0.476}$  **6.8**
- ⑤  $0.03 \overline{)1.287}$  **42.9**
- ⑥  $0.05 \overline{)0.416}$  **8.32**
- ⑦  $0.008 \overline{)0.62}$  **5**
- ⑧  $0.006 \overline{)1.2444}$  **207.4**
- ⑨  $2.08 + 1.6$  **1.3**
- ⑩  $0.1092 + 0.21$  **0.52**
- ⑪  $58.581 + 0.009$  **6.509**
- ⑫  $\frac{0.24}{0.096}$  **2.5**
- ⑬  $\frac{0.038}{0.5}$  **0.076**
- ⑭  $\frac{7.46}{0.08}$  **93.25**
- ⑮  $\frac{1.316}{32.9}$  **0.04**
- ⑯ A package of M&M's® candies contains 5 colors of M&M's and weighs 1.68 oz. If each candy weighs 0.03 oz, how many are in the package? **56**
- ⑰ A machine uses 25 liters of fuel each hour it runs. Its fuel tank was filled with 10 L, but 1.5 L have already been used. How many more hours will the machine run? **3.4**

TOPIC 5-e: Dividing Decimals

B-60