

Step-by-Step 1

Lesson 3.1, Question 11

Here is the Fibonacci sequence: 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ...

Step 1 Write each fraction in the table as a decimal.

$\frac{1}{1}$	$\frac{2}{1}$	$\frac{3}{2}$	$\frac{5}{3}$	$\frac{8}{5}$	$\frac{13}{8}$

Step 2 Look at the decimals in the table.

What patterns do you see in the decimals?

Step 3 Extend the table using the Fibonacci sequence.
Continue to write consecutive terms as fractions.

$\frac{21}{13}$			

Step 4 Complete the table. Write each fraction as a decimal.

Do the patterns in the table in *Step 1* continue? Explain.

What number do the decimals appear to get closer and closer to?

Step-by-Step 2

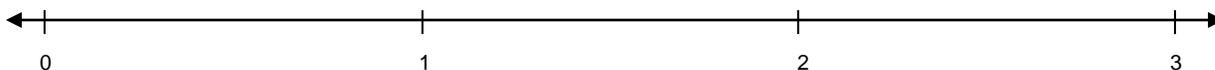
Lesson 3.2, Question 11

- Step 1** Amrita sold $\frac{11}{6}$ pizzas. Write this fraction as a decimal. _____
 Paul sold 1.875 pizzas.
 Corey sold $\frac{9}{4}$ pizzas. Write this fraction as a decimal. _____

- Step 2** Write each decimal in the place-value chart.

	Ones	Tenths	Hundredths	Thousandths
Amrita				
Paul				
Corey				

- Step 3** Use the number line below. Divide the line into tenths.
 Place the decimal numbers on the line.



- Step 4** Use the number line.
 Who sold the most pizzas? _____
 Who sold the fewest pizzas? _____

- Step 5** Alison sold $2\frac{1}{5}$ pizzas.
 Write the number of pizzas Alison sold as a decimal.
 $2\frac{1}{5} =$ _____

- Step 6** Place this decimal on the number line in *Step 3*.
 How does the number of pizzas Alison sold compare with the numbers of pizzas sold
 by the others?

- Step 7** Use a different method. Verify your answers in *Steps 3* and *4*.

Step-by-Step 4**Lesson 3.4, Question 7**

Step 1 Write the dimensions of the area rug on this rectangle.



Step 2 Estimate the area of the rug. _____

Step 3 Use Base Ten Blocks to model 3.4×2.7 .
Sketch the blocks on grid paper.

Step 4 Use the grid paper sketch to find 3.4×2.7 .

Step 5 How does your answer in *Step 4* compare with your estimate in *Step 2*?

Step 6 Use long multiplication to find 34×27 .

Step 7 Use your estimate in *Step 2* to place the decimal point in your answer in *Step 6*,
to get the product of 3.4×2.7 . _____

Step 8 Compare your answers in *Steps 4* and *7*. Which method did you prefer?
Why?

Step 9 What is the area of the rug? _____

Lesson 3.5, Question 10

Step 1 Alex needs fourteen 0.8-m pieces of fabric.
Multiply: 0.8×14

How much fabric does Alex need in total? _____

Step 2 Alex buys 9.88 m of fabric.
Does he have enough? _____
How can you use your answer in *Step 1* to find out?

Step 3 Does Alex have more fabric than he needs? _____
How do you know?

Step 4 Does Alex need more fabric?

How much more?

Step 5 Alex redesigns his patio. He needs fourteen 0.7-m pieces.
Multiply: 0.7×14 _____
Is the remnant enough fabric? _____ Explain.

Step-by-Step 6

Lesson 3.6, Question 5

$$12 \times (4.8 \div 0.3) - 3.64 \times 3.5$$

Step 1 Divide in brackets first.

Step 2 Complete all the multiplication from left to right.

Step 3 Subtract.

Step 4 What is the answer? _____

Who had the correct answer? _____

Step 5 Perform the operations as they occur, from left to right.

What is the answer? _____

Which student incorrectly completed the question in this way?

Step 6 Use the order of operations.

Find: $(4.8 \div 0.3) - 3.64 \times 3.5$

Multiply the result by 12. _____

What is the answer? _____

Which student incorrectly completed the question in this way?

Lesson 3.7, Question 5

Step 1 Fold a sheet of paper in half lengthwise.

Fold it in half again widthwise.

Unfold the paper. There are 4 congruent sections.

How many sections will you shade blue to represent $\frac{1}{2}$? _____

Shade the sections.

Step 2 Write 25% as a fraction in simplest form. _____

How many sections will you shade yellow? _____

Shade the section(s).

Step 3 What fraction of the page is not shaded? _____

What percent is this? _____

Divide the section into 5 equal rows.

What percent does each row represent? _____

How many rows will you shade to show 10%? _____

Shade the rows red.

Step 4 Shade the remaining rows green. How many rows are green? _____

What percent of the page is the green section? _____

How do you know?

Step-by-Step 8**Lesson 3.8, Question 7**

Step 1 What does “up to 60% off” mean? _____

Step 2 Each item is to be reduced by 60%.
So, the sale price is $100\% - 60\% = 40\%$ of the regular price.
Multiply each regular price by 0.4 to find the sale price.
Complete the table below.

Item	Regular Price	Sale Price
Sweaters	\$49.99	
Ski Jackets	\$149.99	
Scarves	\$29.99	
Leather Gloves	\$69.99	
Hats	\$24.99	

Step 3 Compare the sale prices you calculated in *Step 2* with those on page 116 of the Student Book. Which items in the advertisement have been reduced by 60%?

Step 4 Suppose all items are reduced by 60%. What changes would you make to the sale prices in the advertisement? Explain.
