Student Activity Book - Page 351

Name _____ Date _____

Dividing Decimals
Homework

Luis thought about expanded form when he solved this division problem:

$2.4 \div 0.04 = (2 + .4) \div 0.04$

(2 is the same as 200 hundredths.)   (.4 is the same as 40 hundredths.)

200 hundredths ÷ 4 hundredths = **50**   40 hundredths ÷ 4 hundredths = **10**

50 + **10** = 60

1. Think about expanded form and complete the sentences to solve the problem.

   A. $4.8 \div 0.2 = (4 + .8) \div 0.2$

   4 is the same as ☐ tenths.   .8 is the same as ☐ tenths.

   ☐ tenths ÷ 2 tenths = ☐   ☐ tenths ÷ 2 tenths = ☐

   $4.8 \div 0.2 = $ _____

   B. $8.4 \div 0.04 = (8 + .4) \div 0.04$

   8 is the same as ☐ hundredths.   *Think about grids or base-ten pieces.*

   4 tenths is the same as ☐ hundredths.

   ☐ hundredths ÷ 4 hundredths = ☐

   ☐ hundredths ÷ 4 hundredths = ☐

   $8.4 \div 0.04 = $ _____

Strategies for Dividing Decimals   SAB · Grade 5 · Unit 8 · Lesson 11   **351**

Student Activity Book - Page 352

Name _____ Date _____

2. **A.** Use the grids to solve $1.6 \div 0.4$.   **B.** Solve $1.6 \div 4$ a different way.

$1.6 \div 0.4 = $ _____

Use any strategy to solve the division problems in Questions 3–5. More grids are available on the following pages. Show your work.

3. **A.** $4 \div .08$ **B.** $3.5 \div 0.5$ **C.** $0.36 \div 0.04$

4. Mrs. Greene wants to plant a row of basil plants. The row is 9.6 meters long, and she wants the basil plants 0.3 meters apart. How many basil plants can she plant in this row?

5. Mrs. Greene buys a 2.7-gram packet of Sweet Pea seeds. Each seed weighs 0.09 grams. How many seeds are in the packet?

352 SAB · Grade 5 · Unit 8 · Lesson 11   Strategies for Dividing Decimals

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Student Activity Book

Dividing Decimals (SAB pp. 351–352)
Homework
Questions 1–5

1. **A.** $4.8 \div 0.2 = (4 + .8) \div 0.2$

   4 is the same as 40 tenths.

   40 tenths ÷ 2 tenths = 20

   8 is the same as 8 tenths.

   8 tenths ÷ 2 tenths = 4

   $4.8 \div 0.2 = 24$

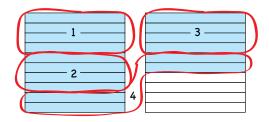   **B.** $8.4 \div 0.04 = (8 + .4) \div 0.04$

   8 is the same as 800 hundredths.

   4 tenths is the same as 40 hundredths.

   800 hundredths ÷ 4 hundredths = 200

   40 hundredths ÷ 4 hundredths = 10

   $8.4 \div 0.04 = 210$

2. **A.**

   $1.6 \div 0.4 = 4$

   B. Solution strategies will vary. Possible strategy:

   $1.6 \div 0.4$ is the same as

   16 tenths ÷ 4 tenths = 4

Strategies for Questions 3–5 will vary. Possible strategies are given.

3. **A.** $4 \div .08 = 50$

   Multiplying the dividend and the divisor by 100:

   $(4 \times 100) \div (.08 \times 100) = (400) \div (8) = 50$

   B. $3.5 \div 0.5 = 7$

   Using expanded form:

   $(3 + .5) \div 0.5$
   $= (6 + 1)$
   $= 7$

   C. $0.36 \div 0.04 = 9$

   36 hundredths divided by 4 hundredths = 9

4. $9.6 \div 0.3 = 32$ basil plants

5. $2.7 \div 0.09 = 30$ seeds