Dividing Decimals

Lesson 6-11

DATE TIME

SRB 44, 128, 137–139

For Problems 1 and 2:

- Write a number model.
- Make an estimate. Write a number sentence to record your estimate.
- Divide as if the dividend were a whole number. If there is a remainder, write it as a fraction and use it to round the quotient to the nearest whole number.
- Use your estimate to place the decimal point. Record your answer.

Sample estimates given.

1 Three sisters set up a lemonade stand. On Wednesday they made $8.46. If they share the money equally, how much will each sister get?

Number model: $8.46 \div 3 = s$

Estimate: $8 \div 4 = 2$

Answer: Each sister will get $2.82.

2 Janine is building a bookshelf. She has a board that is 6.77 meters long. She wants to cut it into 5 pieces of equal length. How long will each piece be?

Number model: $6.77 / 5 = p$

Estimate: $5 / 5 = 1$

Answer: Each piece is about 1.35 meters long.

5.NBT.6, 5.NBT.7, SMP6

Dividing Decimals (continued)

Lesson 6-11

DATE TIME

SRB 128, 137–139

For Problems 3–6:

- Make an estimate. Write a number sentence to record your estimate.
- Divide as if the dividend were a whole number. Show your work on the computation grid. If there is a remainder, write it as a fraction and use it to round the quotient to the nearest whole number.
- Use your estimate to place the decimal point. Record your answer.

Sample estimates given.

3 9.44 / 4 = ?

Estimate: 10 / 5 = 2

9.44 / 4 = 2.36

4 46.8 ÷ 12 = ?

Estimate: 50 ÷ 10 = 5

46.8 ÷ 12 = 3.9

5 89.9 ÷ 4 = ?

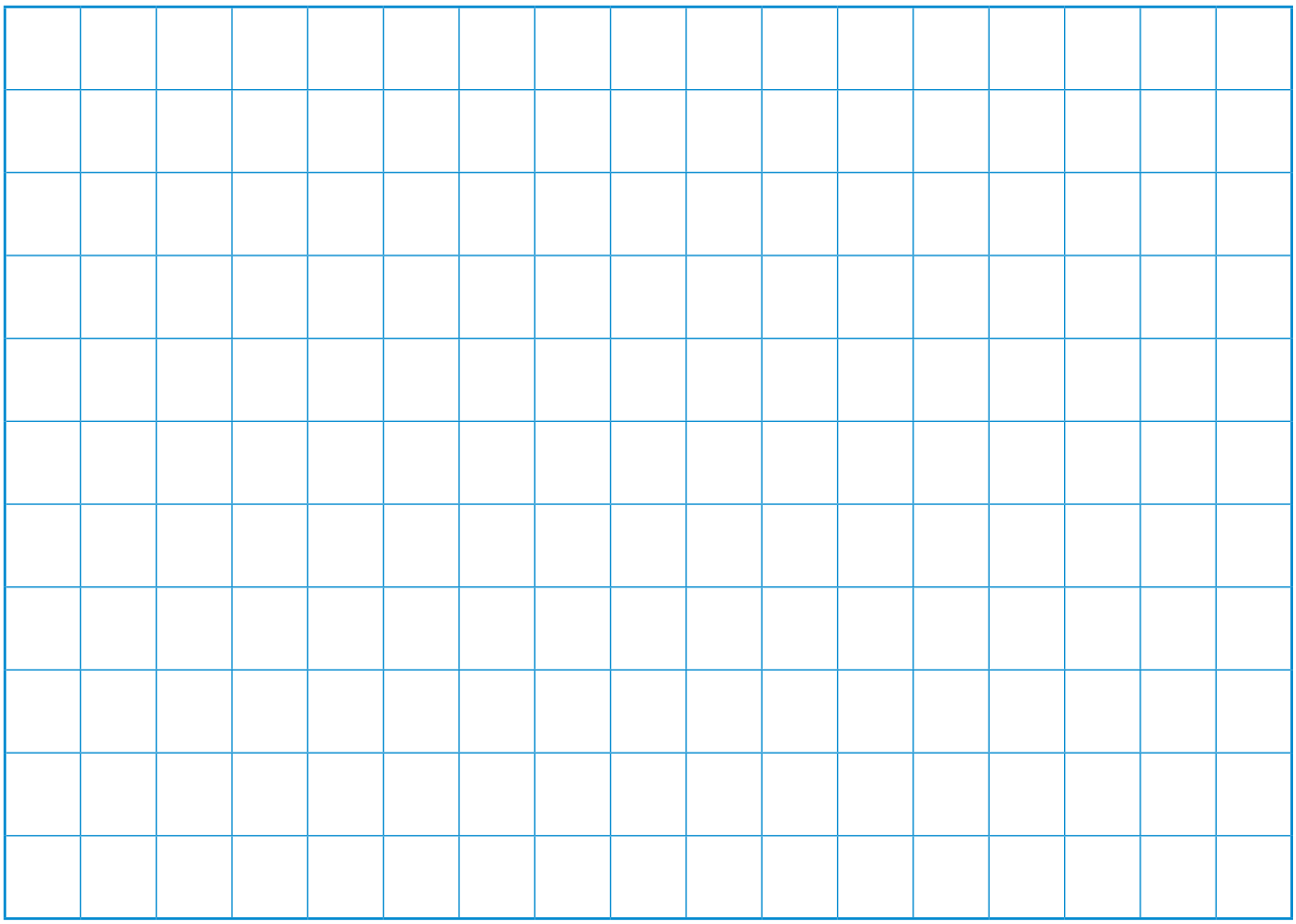
Estimate: 100 ÷ 4 = 25

89.9 ÷ 4 ≈ 22.5

6 253.7 / 6 = ?

Estimate: 250 / 5 = 50

253.7 / 6 ≈ 42.3



5.NBT.6, 5.NBT.7, SMP6