Estimating Decimal Products and Quotients

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NAME DATE TIME

SRB 128

Kyle and Emma came up with different answers on their homework. For each problem, make an estimate. Write a number sentence to show how you estimated. Then circle the student who has the correct answer. Sample estimates given.

1. 8.82 ÷ 1.4 = ? Estimate: $9 \div 1 = 9$

   Kyle: 63 (Emma: 6.3)

2. 17.6 * 8.5 = ? Estimate: $20 * 10 = 200$

   (Kyle: 149.6) Emma: 14.96

3. 2,812.95 ÷ 89.3 = ? Estimate: $3{,}000 \div 100 = 30$

   (Kyle: 31.5) Emma: 315.0

4. 65.2 * 112.5 = ? Estimate: $70 * 100 = 7{,}000$

   Kyle: 733.5 (Emma: 7,335)

5. 209.1 ÷ 24.6 = ? Estimate: $200 \div 25 = 8$

   (Kyle: 8.5) Emma: 85.0

6. 3.6 * 0.25 = ? Estimate: $4 * \frac{1}{4} = 1$

   Kyle: 9.0 (Emma: 0.9)

Practice

Make an estimate. Then solve. Estimates vary.

7. 526 ÷ 17 = ?

   _____ (estimate)

   Answer: $30\frac{16}{17}$, or 30 R16

8. 1,963 / 88 = ?

   _____ (estimate)

   Answer: $22\frac{27}{88}$, or 22 R27

5.NBT.7, 5.NBT.6, SMP1