Grade 5 Unit 1 worksheet: Dividing a decimal by ten, one hundred or one thousand

Name _____ Date _____ Period _____

1. Divide. Move every digit to the right, and fill empty places with zeros.

(a) 5,630 ÷ 10

(b) 94.2 ÷ 10

(c) 708 ÷ 100

(d) 26.4 ÷ 100

(e) 4,005 ÷ 1,000

(f) 0.5 ÷ 100

2. Divide. The exponent tells how many places each digit moves.

(a) $52.7 \div 10^1$

(b) $1{,}940 \div 10^2$

(c) $386 \div 10^3$

(d) $70.5 \div 10^2$

(e) $13 \div 10^3$

(f) $2{,}000 \div 10^3$

3. Each blank is the number that was divided. Fill in each blank. Then check by dividing.

(a) $\square \div 10 = 4.05$

(b) $\square \div 100 = 0.36$

(c) $\square \div 1{,}000 = 0.517$

(d) $\square \div 100 = 0.084$

(e) $\square \div 10^3 = 2.6$

(f) $\square \div 10 = 0.09$

4. A jar holds 1,000 glass beads that all weigh the same. Together the beads weigh 239 grams. How much does one bead weigh?

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5. Write $<$, $>$ or $=$ in each blank. Work out both sides first.

(a) $4.5 \div 10$ ☐ $450 \div 1{,}000$

(b) $72 \div 100$ ☐ $7.2 \div 100$

(c) $6 \div 1{,}000$ ☐ $0.6 \div 10$

6. In art class, Maya measures two stacks. A stack of 100 index cards is 2.4 cm tall. A stack of 10 sheets of poster board is 0.6 cm tall.

(a) How thick is one index card?

(b) How thick is one sheet of poster board?

(c) Which is thicker, one index card or one sheet of poster board?

7. Zoe says, "When you divide a whole number by 1,000, the answer is always less than 1."

(a) Give a whole number that makes Zoe right, and divide it by 1,000.

(b) Give a whole number that makes Zoe wrong, and divide it by 1,000.

(c) Which whole numbers give an answer less than 1? Explain.

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