Dividing by Decimals

Decimals

Name: _____ Date: _____ Grade 6

1. Select all the expressions that are equivalent to 62.4 ÷ 2.6.

- ☐ **A.** 624 ÷ 26
- ☐ **B.** 620 ÷ 26
- ☐ **C.** 6,240 ÷ 260
- ☐ **D.** 624 ÷ 0.26
- ☐ **E.** 6.24 ÷ 0.26

2. Think about the expression 0.0048 ÷ 0.006.

a Write two different division expressions that have the same quotient.

b Evaluate 0.0048 ÷ 0.006. Show or explain your thinking. _____

3. Ty said, "To find 6.072 ÷ 8, I can divide 6,072 by 80."

a Do you agree with Ty? Explain your thinking.

b Calculate 6.072 ÷ 8. _____

4. Rosa said, "To find 845.4 ÷ 0.6, I can divide 8,454 by 6."

a Do you agree with Rosa? Explain your thinking.

b Calculate 845.4 ÷ 0.6. _____

5. **A bag of nickels weighs 6 kilograms. Each nickel weighs 5 grams. How many nickels are in the bag? (1 kilogram = 1,000 grams)**

A 12,000 **B** 1,200 **C** 120 **D** 12

6. **Different brands of juice boxes are sold in packs. Complete the table to find the unit cost of each brand.**

Brand	Price ($)	Number of Boxes	Unit Cost ($)
Sunny Sips	5.40	24	
Fruit Fizz	4.32	16	
Berry Blast	2.88	8	

7. **Evaluate each expression.**

a 13.6 ÷ 1.7 _____ **b** 0.054 ÷ 0.03 _____

8. **Eli says, "To find 240 ÷ 1.6, I can divide 24,000 by 160." Nia says, "To find 240 ÷ 1.6, I can divide 2,400 by 16."**

a Who is correct? Explain your thinking.

b Calculate 240 ÷ 1.6. _____