Year 8 Decimals – Challenge

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Year 8 · Maths · Decimal Calculations and Ordering · Level 3 Challenge · 8 questions

Name _____ **Date** _____

A. Think like a mathematician

1. Ivo says 1 ÷ 0.2 = 0.5. Spot the mistake and give the correct answer.

Answer _____

2. Lina says 4.9 ÷ 0.7 = 0.7. Spot the mistake and give the correct answer.

Answer _____

3. Lina says −1.5 > −1.45 because 4 tenths is more than 3 tenths. Spot the mistake and write the correct statement.

Answer _____

4. Kofi says multiplying by a decimal always makes a number smaller. Is Kofi right? Explain.

Answer _____

5. Ivo says −0.6 is greater than −0.58. Is Ivo right? Explain.

Answer _____

6. Jade's calculator shows 7.5 × 3.3 = 2.475. Use an estimate to decide whether this is reasonable.

Answer _____

7. Fuel costs $1.25 per litre. A driver buys 28.8 litres. What is the cost, to the nearest cent?

Answer _____

8. Which of these values of x satisfy $-1.9 < x \leq 0.3$? 0.4, −1.85, −2, −1.9, 0.25

Answer _____