Year 9 Fractions and Decimals – Challenge

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Year 9 · Maths · Fraction and Decimal Calculations · Level 3 Challenge · 8 questions

Name _____ **Date** _____

A. Think like a mathematician

1. Eli says the reciprocal of a number is always smaller than the number. Is Eli right? Explain.

Answer _____

2. Ivo says a fraction in its simplest form is a terminating decimal if its denominator has no prime factors other than 2 and 5. Is Ivo right? Explain.

Answer _____

3. Lina says 4 1/2 × 5 1/3 = 20 1/6 by multiplying the whole numbers and then the fractions. Spot the mistake and give the correct answer.

Answer _____

4. Farah says 1.2 × 0.03 = 0.36. Spot the mistake and give the correct answer.

Answer _____

5. Show that 9 ÷ 2/5 gives the same answer as 9 × 5/2. Explain why.

Answer _____

6. A fraction in its simplest form has a denominator of 24. Can it be a terminating decimal? Explain.

Answer _____

7. A recipe uses 2 1/4 cups of flour. Kofi makes 2 1/2 times the recipe. How many cups of flour does Kofi need?

Answer _____

8. Work out $(1/3)^2 + 7/5 \times 4/3$.

Answer _____