Year 8 Fractions and Recurring Decimals – Challenge

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Year 8 · Maths · Fractions and Recurring Decimals · Level 3 Challenge · 8 questions

Name _____ **Date** _____

A. Think like a mathematician

1. Amir says 4 × 4 1/2 = 16 1/2. Spot the mistake and give the correct answer.

Answer _____

2. Lina says 9 ÷ 3/4 = 6 3/4. Spot the mistake and give the correct answer.

Answer _____

3. Hana says 8 ÷ 4/5 = 6 2/5. Spot the mistake and give the correct answer.

Answer _____

4. Ivo says every fraction is equal to a terminating decimal. Is Ivo right? Explain.

Answer _____

5. Ivo says a fraction in its simplest form with denominator 40 is a terminating decimal. Is Ivo right? Explain.

Answer _____

6. Farah says dividing a positive integer by a proper fraction always gives a bigger answer. Is Farah right? Explain.

Answer _____

7. How many 3/4 litre bottles can be filled from 9 litres of juice?

Answer _____

8. Work out $1.7 \times 6.3 + 1.7 \times 3.7$, using the laws of arithmetic to make it simpler.

Answer _____