



Bestimmen Sie, ob jedes Problem, wenn es in eine Dezimalzahl umgewandelt wird, zu einer sich wiederholenden (R) oder abschließenden (T) Dezimalzahl führt.

A fraction will result in a **terminating** decimal if the prime factors of the simplified denominator contain only 2s or 5s (or only 2s and 5s).

$$\frac{6}{40} = \frac{3}{20} = 2 \times 2 \times 5 = 0.15$$

A fraction will result in a **repeating** decimal if the prime factors of the simplified denominator contain any prime factor other than 2 or 5.

$$\frac{5}{42} = 2 \times 3 \times 7 = 0.1190476$$

Antworten

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

1) $31 : 3 =$ _____

2) $\frac{1}{2} =$ _____

3) $107 : 28 =$ _____

4) $\frac{4}{7} =$ _____

5) $\frac{5}{13} =$ _____

6) $\frac{7}{22} =$ _____

7) $153 : 25 =$ _____

8) $271 : 26 =$ _____

9) $99 : 24 =$ _____

10) $\frac{7}{12} =$ _____

11) $\frac{1}{4} =$ _____

12) $166 : 27 =$ _____

13) $\frac{7}{8} =$ _____

14) $\frac{7}{15} =$ _____

15) $\frac{16}{23} =$ _____



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$$\frac{5}{42} = 2 \times 3 \times 7 = 0.1190476$$

1) $31 : 3 =$ 3

2) $\frac{1}{2} =$ 2

3) $107 : 28 =$ 2•2•7

4) $\frac{4}{7} =$ 7

5) $\frac{5}{13} =$ 13

6) $\frac{7}{22} =$ 2•11

7) $153 : 25 =$ 5•5

8) $271 : 26 =$ 2•13

9) $99 : 24 =$ 2•2•2

10) $\frac{7}{12} =$ 2•2•3

11) $\frac{1}{4} =$ 2•2

12) $166 : 27 =$ 3•3•3

13) $\frac{7}{8} =$ 2•2•2

14) $\frac{7}{15} =$ 3•5

15) $\frac{16}{23} =$ 23

Antworten1. R2. T3. R4. R5. R6. R7. T8. R9. T10. R11. T12. R13. T14. R15. R