



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) $136 : 19 =$ _____

2) $\frac{7}{26} =$ _____

3) $8 : 3 =$ _____

4) $\frac{5}{23} =$ _____

5) $79 : 13 =$ _____

6) $\frac{6}{12} =$ _____

7) $48 : 21 =$ _____

8) $\frac{24}{27} =$ _____

9) $\frac{8}{29} =$ _____

10) $\frac{5}{30} =$ _____

11) $172 : 28 =$ _____

12) $\frac{4}{10} =$ _____

13) $36 : 11 =$ _____

14) $\frac{2}{8} =$ _____

15) $\frac{8}{16} =$ _____



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) $136 : 19 =$ 19

2) $\frac{7}{26} =$ 2•13

3) $8 : 3 =$ 3

4) $\frac{5}{23} =$ 23

5) $79 : 13 =$ 13

6) $\frac{6}{12} =$ 2

7) $48 : 21 =$ 7

8) $\frac{24}{27} =$ 3•3

9) $\frac{8}{29} =$ 29

10) $\frac{5}{30} =$ 2•3

11) $172 : 28 =$ 7

12) $\frac{4}{10} =$ 5

13) $36 : 11 =$ 11

14) $\frac{2}{8} =$ 2•2

15) $\frac{8}{16} =$ 2

1. R2. R3. R4. R5. R6. T7. R8. R9. R10. R11. R12. T13. R14. T15. T