



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) $195 : 30 =$ _____

2) $161 : 18 =$ _____

3) $49 : 24 =$ _____

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

5) $46 : 22 =$ _____

6) $114 : 11 =$ _____

7) $230 : 28 =$ _____

8) $\frac{1}{3} =$ _____

9) $\frac{14}{21} =$ _____

10) $168 : 17 =$ _____

11) $\frac{3}{4} =$ _____

12) $\frac{6}{10} =$ _____

13) $\frac{11}{25} =$ _____

14) $\frac{6}{9} =$ _____

15) $73 : 12 =$ _____



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

1) $195 : 30 =$ 2

2) $161 : 18 =$ 2•3•3

3) $49 : 24 =$ 2•2•2•3

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

5) $46 : 22 =$ 11

6) $114 : 11 =$ 11

7) $230 : 28 =$ 2•7

8) $\frac{1}{3} =$ 3

9) $\frac{14}{21} =$ 3

10) $168 : 17 =$ 17

11) $\frac{3}{4} =$ 2•2

12) $\frac{6}{10} =$ 5

13) $\frac{11}{25} =$ 5•5

14) $\frac{6}{9} =$ 3

15) $73 : 12 =$ 2•2•3

Antworten1. T2. R3. R4. T5. R6. R7. R8. R9. R10. R11. T12. T13. T14. R15. R