Trovare i decimali ripetuti

Nome:

Determina se ogni problema, quando convertito in un decimale, risulterà in un decimale ripetuto (R) o finale (T).

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).

$^{6}/_{40} = {}^{3}/_{20} = 2\times2\times5 = 0.15$

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.

$^{5}/_{42} = 2\times3\times7 = 0.1\overline{190476}$

1) 31 : 3 = _____

2) $^{1}/_{2}$ = _____

3) 107 : 28 = _____

4) $^{4}/_{7}$ = _____

5) $^{5}/_{13}$ = _____

6) $^{7}/_{22}$ = _____

7) 153 : 25 = _____

8) 271 : 26 = _____

9) 99 : 24 = _____

10) $^{7}/_{12}$ = _____

11) $^{1}/_{4}$ = _____

12) 166 : 27 = _____

13) $^{7}/_{8}$ = _____

14) $^{7}/_{15}$ = _____

15) $^{16}/_{23}$ = _____

Risposte

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Determina se ogni problema, quando convertito in un decimale, risulterà in un decimale ripetuto (R) o finale (T).

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).

$^{6}/_{40} = {}^{3}/_{20} = 2\times2\times5 = 0.15$

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.

$^{5}/_{42} = 2\times3\times7 = 0.1\overline{190476}$

1) 31 : 3 = 3

2) $^{1}/_{2}$ = 2

3) 107 : 28 = 2×2×7

4) $^{4}/_{7}$ = 7

5) $^{5}/_{13}$ = 13

6) $^{7}/_{22}$ = 2×11

7) 153 : 25 = 5×5

8) 271 : 26 = 2×13

9) 99 : 24 = 2×2×2

10) $^{7}/_{12}$ = 2×2×3

11) $^{1}/_{4}$ = 2×2

12) 166 : 27 = 3×3×3

13) $^{7}/_{8}$ = 2×2×2

14) $^{7}/_{15}$ = 3×5

15) $^{16}/_{23}$ = 23

Risposte

1. R
2. T
3. R
4. R
5. R
6. R
7. T
8. R
9. T
10. R
11. T
12. R
13. T
14. R
15. R

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					