



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

**Risposte**

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.

$$\frac{5}{42} = 2 \times 3 \times 7 = 0.1\overline{190476}$$

- 1)  $\frac{2}{5} =$  \_\_\_\_\_
- 2)  $47 : 9 =$  \_\_\_\_\_
- 3)  $141 : 16 =$  \_\_\_\_\_
- 4)  $108 : 11 =$  \_\_\_\_\_
- 5)  $\frac{9}{17} =$  \_\_\_\_\_
- 6)  $\frac{12}{28} =$  \_\_\_\_\_
- 7)  $\frac{8}{20} =$  \_\_\_\_\_
- 8)  $\frac{2}{26} =$  \_\_\_\_\_
- 9)  $7 : 2 =$  \_\_\_\_\_
- 10)  $151 : 30 =$  \_\_\_\_\_
- 11)  $\frac{10}{12} =$  \_\_\_\_\_
- 12)  $\frac{12}{13} =$  \_\_\_\_\_
- 13)  $\frac{4}{14} =$  \_\_\_\_\_
- 14)  $92 : 21 =$  \_\_\_\_\_
- 15)  $10 : 4 =$  \_\_\_\_\_

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13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



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

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.

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

- 1)  $\frac{2}{5} = \underline{5}$
- 2)  $47 : 9 = \underline{3 \times 3}$
- 3)  $141 : 16 = \underline{2 \times 2 \times 2 \times 2}$
- 4)  $108 : 11 = \underline{11}$
- 5)  $\frac{9}{17} = \underline{17}$
- 6)  $\frac{12}{28} = \underline{7}$
- 7)  $\frac{8}{20} = \underline{5}$
- 8)  $\frac{2}{26} = \underline{13}$
- 9)  $7 : 2 = \underline{2}$
- 10)  $151 : 30 = \underline{2 \times 3 \times 5}$
- 11)  $\frac{10}{12} = \underline{2 \times 3}$
- 12)  $\frac{12}{13} = \underline{13}$
- 13)  $\frac{4}{14} = \underline{7}$
- 14)  $92 : 21 = \underline{3 \times 7}$
- 15)  $10 : 4 = \underline{2}$

**Risposte**

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