



Determine si cada problema, cuando se convierte a decimal, dará como resultado un decimal periódico(P) o exacto (E).

Respuestas

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) $47 \div 9 =$ _____

3) $141 \div 16 =$ _____

4) $108 \div 11 =$ _____

5) $\frac{9}{17} =$ _____

6) $\frac{12}{28} =$ _____

7) $\frac{8}{20} =$ _____

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

9) $7 \div 2 =$ _____

10) $151 \div 30 =$ _____

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

12) $\frac{12}{13} =$ _____

13) $\frac{4}{14} =$ _____

14) $92 \div 21 =$ _____

15) $10 \div 4 =$ _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____



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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.

$$\frac{5}{42} = 2 \times 3 \times 7 = 0.11\overline{90476}$$

1) $\frac{2}{5} = \underline{5}$

2) $47 \div 9 = \underline{3 \times 3}$

3) $141 \div 16 = \underline{2 \times 2 \times 2 \times 2}$

4) $108 \div 11 = \underline{11}$

5) $\frac{9}{17} = \underline{17}$

6) $\frac{12}{28} = \underline{7}$

7) $\frac{8}{20} = \underline{5}$

8) $\frac{2}{26} = \underline{13}$

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11) $\frac{10}{12} = \underline{2 \times 3}$

12) $\frac{12}{13} = \underline{13}$

13) $\frac{4}{14} = \underline{7}$

14) $92 \div 21 = \underline{3 \times 7}$

15) $10 \div 4 = \underline{2}$

Respuestas1. **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**