



Determine if each problem when converted to a decimal will result in a repeating (R) or terminating (T) decimal.

Answers

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.

$$\frac{5}{42} = 2 \times 3 \times 7 = 0.\overline{1190476}$$

- 1) $\frac{10}{27} =$ _____
- 2) $127 \div 12 =$ _____
- 3) $91 \div 9 =$ _____
- 4) $240 \div 26 =$ _____
- 5) $38 \div 5 =$ _____
- 6) $\frac{6}{23} =$ _____
- 7) $\frac{9}{10} =$ _____
- 8) $\frac{6}{29} =$ _____
- 9) $\frac{1}{2} =$ _____
- 10) $87 \div 16 =$ _____
- 11) $165 \div 19 =$ _____
- 12) $\frac{5}{6} =$ _____
- 13) $\frac{6}{8} =$ _____
- 14) $222 \div 22 =$ _____
- 15) $23 \div 4 =$ _____

1. _____
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6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____



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$$\frac{5}{42} = 2 \times 3 \times 7 = 0.\overline{1190476}$$

- 1) $\frac{10}{27} = \underline{3 \times 3 \times 3}$
- 2) $127 \div 12 = \underline{2 \times 2 \times 3}$
- 3) $91 \div 9 = \underline{3 \times 3}$
- 4) $240 \div 26 = \underline{13}$
- 5) $38 \div 5 = \underline{5}$
- 6) $\frac{6}{23} = \underline{23}$
- 7) $\frac{9}{10} = \underline{2 \times 5}$
- 8) $\frac{6}{29} = \underline{29}$
- 9) $\frac{1}{2} = \underline{2}$
- 10) $87 \div 16 = \underline{2 \times 2 \times 2 \times 2}$
- 11) $165 \div 19 = \underline{19}$
- 12) $\frac{5}{6} = \underline{2 \times 3}$
- 13) $\frac{6}{8} = \underline{2 \times 2}$
- 14) $222 \div 22 = \underline{11}$
- 15) $23 \div 4 = \underline{2 \times 2}$

Answers

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



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- 1) $\frac{8}{24} =$ _____
- 2) $\frac{4}{13} =$ _____
- 3) $78 \div 11 =$ _____
- 4) $159 \div 21 =$ _____
- 5) $62 \div 10 =$ _____
- 6) $18 \div 4 =$ _____
- 7) $273 \div 28 =$ _____
- 8) $\frac{24}{27} =$ _____
- 9) $24 \div 5 =$ _____
- 10) $\frac{15}{16} =$ _____
- 11) $\frac{8}{22} =$ _____
- 12) $\frac{8}{18} =$ _____
- 13) $\frac{6}{9} =$ _____
- 14) $157 \div 15 =$ _____
- 15) $\frac{6}{7} =$ _____

1. _____
2. _____
3. _____
4. _____
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$$\frac{5}{42} = 2 \times 3 \times 7 = 0.1190476$$

- 1) $\frac{8}{24} =$ 3
- 2) $\frac{4}{13} =$ 13
- 3) $78 \div 11 =$ 11
- 4) $159 \div 21 =$ 7
- 5) $62 \div 10 =$ 5
- 6) $18 \div 4 =$ 2
- 7) $273 \div 28 =$ 2x2
- 8) $\frac{24}{27} =$ 3x3
- 9) $24 \div 5 =$ 5
- 10) $\frac{15}{16} =$ 2x2x2x2
- 11) $\frac{8}{22} =$ 11
- 12) $\frac{8}{18} =$ 3x3
- 13) $\frac{6}{9} =$ 3
- 14) $157 \div 15 =$ 3x5
- 15) $\frac{6}{7} =$ 7

Answers

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



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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.

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

1) $270 \div 28 =$ _____

2) $\frac{8}{11} =$ _____

3) $202 \div 23 =$ _____

4) $216 \div 22 =$ _____

5) $\frac{11}{19} =$ _____

6) $193 \div 24 =$ _____

7) $230 \div 30 =$ _____

8) $\frac{22}{29} =$ _____

9) $\frac{9}{25} =$ _____

10) $\frac{19}{20} =$ _____

11) $13 \div 5 =$ _____

12) $71 \div 9 =$ _____

13) $\frac{12}{27} =$ _____

14) $42 \div 8 =$ _____

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

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.

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

1) $270 \div 28 =$ 2x7

2) $\frac{8}{11} =$ 11

3) $202 \div 23 =$ 23

4) $216 \div 22 =$ 11

5) $\frac{11}{19} =$ 19

6) $193 \div 24 =$ 2x2x2x3

7) $230 \div 30 =$ 3

8) $\frac{22}{29} =$ 29

9) $\frac{9}{25} =$ 5x5

10) $\frac{19}{20} =$ 2x2x5

11) $13 \div 5 =$ 5

12) $71 \div 9 =$ 3x3

13) $\frac{12}{27} =$ 3x3

14) $42 \div 8 =$ 2x2

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

Answers

1. R

2. R

3. R

4. R

5. R

6. R

7. R

8. R

9. T

10. T

11. T

12. R

13. R

14. T

15. T



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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.

$$\frac{5}{42} = 2 \times 3 \times 7 = 0.\overline{1190476}$$

1) $96 \div 11 =$ _____

2) $\frac{13}{21} =$ _____

3) $13 \div 2 =$ _____

4) $\frac{3}{23} =$ _____

5) $54 \div 20 =$ _____

6) $\frac{15}{18} =$ _____

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

8) $150 \div 28 =$ _____

9) $42 \div 4 =$ _____

10) $61 \div 16 =$ _____

11) $264 \div 25 =$ _____

12) $61 \div 15 =$ _____

13) $\frac{18}{24} =$ _____

14) $41 \div 5 =$ _____

15) $65 \div 29 =$ _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____



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1) $96 \div 11 =$ 11

2) $\frac{13}{21} =$ 3×7

3) $13 \div 2 =$ 2

4) $\frac{3}{23} =$ 23

5) $54 \div 20 =$ 2×5

6) $\frac{15}{18} =$ 2×3

7) $\frac{6}{14} =$ 7

8) $150 \div 28 =$ 2×7

9) $42 \div 4 =$ 2

10) $61 \div 16 =$ 2×2×2×2

11) $264 \div 25 =$ 5×5

12) $61 \div 15 =$ 3×5

13) $\frac{18}{24} =$ 2×2

14) $41 \div 5 =$ 5

15) $65 \div 29 =$ 29

Answers

1. R

2. R

3. T

4. R

5. T

6. R

7. R

8. R

9. T

10. T

11. T

12. R

13. T

14. T

15. R



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1) $78 \div 12 =$ _____

2) $\frac{12}{25} =$ _____

3) $61 \div 9 =$ _____

4) $\frac{1}{28} =$ _____

5) $17 \div 3 =$ _____

6) $60 \div 18 =$ _____

7) $42 \div 10 =$ _____

8) $\frac{3}{20} =$ _____

9) $\frac{3}{30} =$ _____

10) $\frac{6}{29} =$ _____

11) $13 \div 2 =$ _____

12) $\frac{5}{22} =$ _____

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

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

15) $60 \div 24 =$ _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____



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1) $78 \div 12 = \underline{2}$

2) $\frac{12}{25} = \underline{5 \times 5}$

3) $61 \div 9 = \underline{3 \times 3}$

4) $\frac{1}{28} = \underline{2 \times 2 \times 7}$

5) $17 \div 3 = \underline{3}$

6) $60 \div 18 = \underline{3}$

7) $42 \div 10 = \underline{5}$

8) $\frac{3}{20} = \underline{2 \times 2 \times 5}$

9) $\frac{3}{30} = \underline{2 \times 5}$

10) $\frac{6}{29} = \underline{29}$

11) $13 \div 2 = \underline{2}$

12) $\frac{5}{22} = \underline{2 \times 11}$

13) $\frac{2}{7} = \underline{7}$

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

15) $60 \div 24 = \underline{2}$

Answers

1. T

2. T

3. R

4. R

5. R

6. R

7. T

8. T

9. T

10. R

11. T

12. R

13. R

14. R

15. T



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Answers

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

- 1) $\frac{1}{17} =$ _____
- 2) $\frac{10}{28} =$ _____
- 3) $52 \div 7 =$ _____
- 4) $\frac{12}{15} =$ _____
- 5) $\frac{25}{26} =$ _____
- 6) $38 \div 9 =$ _____
- 7) $11 \div 5 =$ _____
- 8) $29 \div 6 =$ _____
- 9) $57 \div 21 =$ _____
- 10) $\frac{7}{11} =$ _____
- 11) $188 \div 30 =$ _____
- 12) $\frac{2}{18} =$ _____
- 13) $116 \div 14 =$ _____
- 14) $226 \div 22 =$ _____
- 15) $\frac{5}{8} =$ _____



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1) $\frac{1}{17} =$ 17

2) $\frac{10}{28} =$ 2×7

3) $52 \div 7 =$ 7

4) $\frac{12}{15} =$ 5

5) $\frac{25}{26} =$ 2×13

6) $38 \div 9 =$ 3×3

7) $11 \div 5 =$ 5

8) $29 \div 6 =$ 2×3

9) $57 \div 21 =$ 7

10) $\frac{7}{11} =$ 11

11) $188 \div 30 =$ 3×5

12) $\frac{2}{18} =$ 3×3

13) $116 \div 14 =$ 7

14) $226 \div 22 =$ 11

15) $\frac{5}{8} =$ 2×2×2

Answers

1. R

2. R

3. R

4. T

5. R

6. R

7. T

8. R

9. R

10. R

11. R

12. R

13. R

14. R

15. T



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$$\frac{5}{42} = 2 \times 3 \times 7 = 0.\overline{1190476}$$

1) $21 \div 2 =$ _____

2) $283 \div 26 =$ _____

3) $\frac{17}{20} =$ _____

4) $106 \div 13 =$ _____

5) $76 \div 16 =$ _____

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

7) $69 \div 9 =$ _____

8) $156 \div 28 =$ _____

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

10) $102 \div 25 =$ _____

11) $\frac{15}{17} =$ _____

12) $123 \div 18 =$ _____

13) $201 \div 29 =$ _____

14) $\frac{14}{23} =$ _____

15) $\frac{19}{30} =$ _____

1. _____

2. _____

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6. _____

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8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____



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2) $283 \div 26 =$ 2×13

3) $\frac{17}{20} =$ $2 \times 2 \times 5$

4) $106 \div 13 =$ 13

5) $76 \div 16 =$ 2×2

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

7) $69 \div 9 =$ 3

8) $156 \div 28 =$ 7

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

10) $102 \div 25 =$ 5×5

11) $\frac{15}{17} =$ 17

12) $123 \div 18 =$ 2×3

13) $201 \div 29 =$ 29

14) $\frac{14}{23} =$ 23

15) $\frac{19}{30} =$ $2 \times 3 \times 5$

Answers

1. T

2. R

3. T

4. R

5. T

6. R

7. R

8. R

9. R

10. T

11. R

12. R

13. R

14. R

15. R



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$$\frac{5}{42} = 2 \times 3 \times 7 = 0.\overline{1190476}$$

1) $158 \div 17 =$ _____

2) $213 \div 25 =$ _____

3) $119 \div 22 =$ _____

4) $\frac{8}{28} =$ _____

5) $\frac{13}{16} =$ _____

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

7) $\frac{3}{29} =$ _____

8) $\frac{6}{18} =$ _____

9) $\frac{4}{6} =$ _____

10) $\frac{12}{27} =$ _____

11) $\frac{15}{19} =$ _____

12) $\frac{7}{14} =$ _____

13) $68 \div 11 =$ _____

14) $116 \div 13 =$ _____

15) $24 \div 7 =$ _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____



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1) $158 \div 17 = \underline{17}$

2) $213 \div 25 = \underline{5 \times 5}$

3) $119 \div 22 = \underline{2 \times 11}$

4) $\frac{8}{28} = \underline{7}$

5) $\frac{13}{16} = \underline{2 \times 2 \times 2 \times 2}$

6) $\frac{1}{3} = \underline{3}$

7) $\frac{3}{29} = \underline{29}$

8) $\frac{6}{18} = \underline{3}$

9) $\frac{4}{6} = \underline{3}$

10) $\frac{12}{27} = \underline{3 \times 3}$

11) $\frac{15}{19} = \underline{19}$

12) $\frac{7}{14} = \underline{2}$

13) $68 \div 11 = \underline{11}$

14) $116 \div 13 = \underline{13}$

15) $24 \div 7 = \underline{7}$

Answers

1. **R**

2. **T**

3. **R**

4. **R**

5. **T**

6. **R**

7. **R**

8. **R**

9. **R**

10. **R**

11. **R**

12. **T**

13. **R**

14. **R**

15. **R**



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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.

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

1) $193 \div 24 =$ _____

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

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

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

5) $112 \div 17 =$ _____

6) $20 \div 9 =$ _____

7) $133 \div 18 =$ _____

8) $\frac{8}{28} =$ _____

9) $242 \div 30 =$ _____

10) $\frac{19}{20} =$ _____

11) $\frac{8}{25} =$ _____

12) $47 \div 12 =$ _____

13) $\frac{3}{5} =$ _____

14) $296 \div 29 =$ _____

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

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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.

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

1) $193 \div 24 =$ $2 \times 2 \times 2 \times 3$

2) $\frac{3}{4} =$ 2×2

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

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

5) $112 \div 17 =$ 17

6) $20 \div 9 =$ 3×3

7) $133 \div 18 =$ $2 \times 3 \times 3$

8) $\frac{8}{28} =$ 7

9) $242 \div 30 =$ 3×5

10) $\frac{19}{20} =$ $2 \times 2 \times 5$

11) $\frac{8}{25} =$ 5×5

12) $47 \div 12 =$ $2 \times 2 \times 3$

13) $\frac{3}{5} =$ 5

14) $296 \div 29 =$ 29

15) $\frac{2}{8} =$ 2×2

Answers

1. **R**

2. **T**

3. **R**

4. **T**

5. **R**

6. **R**

7. **R**

8. **R**

9. **R**

10. **T**

11. **T**

12. **R**

13. **T**

14. **R**

15. **T**



Determine if each problem when converted to a decimal will result in a repeating (R) or terminating (T) decimal.

Answers

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.

$$\frac{5}{42} = 2 \times 3 \times 7 = 0.\overline{1190476}$$

- 1) $\frac{11}{16} =$ _____
- 2) $\frac{2}{4} =$ _____
- 3) $108 \div 22 =$ _____
- 4) $68 \div 12 =$ _____
- 5) $\frac{5}{20} =$ _____
- 6) $\frac{20}{21} =$ _____
- 7) $\frac{1}{30} =$ _____
- 8) $49 \div 5 =$ _____
- 9) $\frac{3}{11} =$ _____
- 10) $\frac{14}{25} =$ _____
- 11) $167 \div 19 =$ _____
- 12) $89 \div 13 =$ _____
- 13) $40 \div 15 =$ _____
- 14) $33 \div 8 =$ _____
- 15) $212 \div 27 =$ _____

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



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

- 1) $\frac{11}{16} =$ 2×2×2×2
- 2) $\frac{2}{4} =$ 2
- 3) $108 \div 22 =$ 11
- 4) $68 \div 12 =$ 3
- 5) $\frac{5}{20} =$ 2×2
- 6) $\frac{20}{21} =$ 3×7
- 7) $\frac{1}{30} =$ 2×3×5
- 8) $49 \div 5 =$ 5
- 9) $\frac{3}{11} =$ 11
- 10) $\frac{14}{25} =$ 5×5
- 11) $167 \div 19 =$ 19
- 12) $89 \div 13 =$ 13
- 13) $40 \div 15 =$ 3
- 14) $33 \div 8 =$ 2×2×2
- 15) $212 \div 27 =$ 3×3×3

Answers

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