



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.

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

1)  $10 \div 3 =$  \_\_\_\_\_

2)  $\frac{1}{8} =$  \_\_\_\_\_

3)  $\frac{16}{20} =$  \_\_\_\_\_

4)  $102 \div 19 =$  \_\_\_\_\_

5)  $\frac{2}{17} =$  \_\_\_\_\_

6)  $288 \div 27 =$  \_\_\_\_\_

7)  $\frac{11}{13} =$  \_\_\_\_\_

8)  $\frac{6}{16} =$  \_\_\_\_\_

9)  $196 \div 30 =$  \_\_\_\_\_

10)  $\frac{21}{24} =$  \_\_\_\_\_

11)  $101 \div 15 =$  \_\_\_\_\_

12)  $243 \div 26 =$  \_\_\_\_\_

13)  $45 \div 18 =$  \_\_\_\_\_

14)  $84 \div 22 =$  \_\_\_\_\_

15)  $144 \div 14 =$  \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



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

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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)  $10 \div 3 =$  3

2)  $\frac{1}{8} =$   $2 \times 2 \times 2$

3)  $\frac{16}{20} =$  5

4)  $102 \div 19 =$  19

5)  $\frac{2}{17} =$  17

6)  $288 \div 27 =$  3

7)  $\frac{11}{13} =$  13

8)  $\frac{6}{16} =$   $2 \times 2 \times 2$

9)  $196 \div 30 =$   $3 \times 5$

10)  $\frac{21}{24} =$   $2 \times 2 \times 2$

11)  $101 \div 15 =$   $3 \times 5$

12)  $243 \div 26 =$   $2 \times 13$

13)  $45 \div 18 =$  2

14)  $84 \div 22 =$  11

15)  $144 \div 14 =$  7

Answers

1. R

2. T

3. T

4. R

5. R

6. R

7. R

8. T

9. R

10. T

11. R

12. R

13. T

14. R

15. R



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

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

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.

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

Answers

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

9)  $7 \div 2 = \underline{2}$

10)  $151 \div 30 = \underline{2 \times 3 \times 5}$

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

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

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

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

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

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



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

1)  $31 \div 3 =$  \_\_\_\_\_

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

3)  $107 \div 28 =$  \_\_\_\_\_

4)  $\frac{4}{7} =$  \_\_\_\_\_

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

6)  $\frac{7}{22} =$  \_\_\_\_\_

7)  $153 \div 25 =$  \_\_\_\_\_

8)  $271 \div 26 =$  \_\_\_\_\_

9)  $99 \div 24 =$  \_\_\_\_\_

10)  $\frac{7}{12} =$  \_\_\_\_\_

11)  $\frac{1}{4} =$  \_\_\_\_\_

12)  $166 \div 27 =$  \_\_\_\_\_

13)  $\frac{7}{8} =$  \_\_\_\_\_

14)  $\frac{7}{15} =$  \_\_\_\_\_

15)  $\frac{16}{23} =$  \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



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

1)  $31 \div 3 = \underline{3}$

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

3)  $107 \div 28 = \underline{2 \times 2 \times 7}$

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

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

6)  $\frac{7}{22} = \underline{2 \times 11}$

7)  $153 \div 25 = \underline{5 \times 5}$

8)  $271 \div 26 = \underline{2 \times 13}$

9)  $99 \div 24 = \underline{2 \times 2 \times 2}$

10)  $\frac{7}{12} = \underline{2 \times 2 \times 3}$

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

12)  $166 \div 27 = \underline{3 \times 3 \times 3}$

13)  $\frac{7}{8} = \underline{2 \times 2 \times 2}$

14)  $\frac{7}{15} = \underline{3 \times 5}$

15)  $\frac{16}{23} = \underline{23}$

Answers

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



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- 1)  $\frac{18}{27} =$  \_\_\_\_\_
- 2)  $\frac{3}{8} =$  \_\_\_\_\_
- 3)  $196 \div 24 =$  \_\_\_\_\_
- 4)  $\frac{10}{28} =$  \_\_\_\_\_
- 5)  $71 \div 22 =$  \_\_\_\_\_
- 6)  $82 \div 14 =$  \_\_\_\_\_
- 7)  $60 \div 21 =$  \_\_\_\_\_
- 8)  $\frac{3}{5} =$  \_\_\_\_\_
- 9)  $15 \div 4 =$  \_\_\_\_\_
- 10)  $\frac{1}{2} =$  \_\_\_\_\_
- 11)  $33 \div 7 =$  \_\_\_\_\_
- 12)  $\frac{4}{6} =$  \_\_\_\_\_
- 13)  $\frac{14}{30} =$  \_\_\_\_\_
- 14)  $\frac{2}{17} =$  \_\_\_\_\_
- 15)  $80 \div 9 =$  \_\_\_\_\_

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



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

- 1)  $\frac{18}{27} = \underline{3}$
- 2)  $\frac{3}{8} = \underline{2 \times 2 \times 2}$
- 3)  $196 \div 24 = \underline{2 \times 3}$
- 4)  $\frac{10}{28} = \underline{2 \times 7}$
- 5)  $71 \div 22 = \underline{2 \times 11}$
- 6)  $82 \div 14 = \underline{7}$
- 7)  $60 \div 21 = \underline{7}$
- 8)  $\frac{3}{5} = \underline{5}$
- 9)  $15 \div 4 = \underline{2 \times 2}$
- 10)  $\frac{1}{2} = \underline{2}$
- 11)  $33 \div 7 = \underline{7}$
- 12)  $\frac{4}{6} = \underline{3}$
- 13)  $\frac{14}{30} = \underline{3 \times 5}$
- 14)  $\frac{2}{17} = \underline{17}$
- 15)  $80 \div 9 = \underline{3 \times 3}$

Answers

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





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1)  $136 \div 19 =$  \_\_\_\_\_

2)  $\frac{7}{26} =$  \_\_\_\_\_

3)  $8 \div 3 =$  \_\_\_\_\_

4)  $\frac{5}{23} =$  \_\_\_\_\_

5)  $79 \div 13 =$  \_\_\_\_\_

6)  $\frac{6}{12} =$  \_\_\_\_\_

7)  $48 \div 21 =$  \_\_\_\_\_

8)  $\frac{24}{27} =$  \_\_\_\_\_

9)  $\frac{8}{29} =$  \_\_\_\_\_

10)  $\frac{5}{30} =$  \_\_\_\_\_

11)  $172 \div 28 =$  \_\_\_\_\_

12)  $\frac{4}{10} =$  \_\_\_\_\_

13)  $36 \div 11 =$  \_\_\_\_\_

14)  $\frac{2}{8} =$  \_\_\_\_\_

15)  $\frac{8}{16} =$  \_\_\_\_\_

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)  $136 \div 19 =$  19

2)  $\frac{7}{26} =$  2×13

3)  $8 \div 3 =$  3

4)  $\frac{5}{23} =$  23

5)  $79 \div 13 =$  13

6)  $\frac{6}{12} =$  2

7)  $48 \div 21 =$  7

8)  $\frac{24}{27} =$  3×3

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

10)  $\frac{5}{30} =$  2×3

11)  $172 \div 28 =$  7

12)  $\frac{4}{10} =$  5

13)  $36 \div 11 =$  11

14)  $\frac{2}{8} =$  2×2

15)  $\frac{8}{16} =$  2

Answers

1. R

2. R

3. R

4. R

5. R

6. T

7. R

8. R

9. R

10. R

11. R

12. T

13. R

14. T

15. T



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

- 1)  $\frac{5}{23} =$  \_\_\_\_\_
- 2)  $\frac{21}{25} =$  \_\_\_\_\_
- 3)  $\frac{7}{13} =$  \_\_\_\_\_
- 4)  $73 \div 30 =$  \_\_\_\_\_
- 5)  $61 \div 7 =$  \_\_\_\_\_
- 6)  $\frac{10}{24} =$  \_\_\_\_\_
- 7)  $77 \div 8 =$  \_\_\_\_\_
- 8)  $\frac{3}{4} =$  \_\_\_\_\_
- 9)  $\frac{8}{9} =$  \_\_\_\_\_
- 10)  $107 \div 15 =$  \_\_\_\_\_
- 11)  $40 \div 6 =$  \_\_\_\_\_
- 12)  $\frac{16}{29} =$  \_\_\_\_\_
- 13)  $139 \div 22 =$  \_\_\_\_\_
- 14)  $86 \div 26 =$  \_\_\_\_\_
- 15)  $\frac{13}{21} =$  \_\_\_\_\_

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)  $\frac{5}{23} =$  23
- 2)  $\frac{21}{25} =$  5×5
- 3)  $\frac{7}{13} =$  13
- 4)  $73 \div 30 =$  2×3×5
- 5)  $61 \div 7 =$  7
- 6)  $\frac{10}{24} =$  2×2×3
- 7)  $77 \div 8 =$  2×2×2
- 8)  $\frac{3}{4} =$  2×2
- 9)  $\frac{8}{9} =$  3×3
- 10)  $107 \div 15 =$  3×5
- 11)  $40 \div 6 =$  3
- 12)  $\frac{16}{29} =$  29
- 13)  $139 \div 22 =$  2×11
- 14)  $86 \div 26 =$  13
- 15)  $\frac{13}{21} =$  3×7

Answers

1. R
2. T
3. R
4. R
5. R
6. R
7. T
8. T
9. R
10. R
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)  $195 \div 30 =$  \_\_\_\_\_

2)  $161 \div 18 =$  \_\_\_\_\_

3)  $49 \div 24 =$  \_\_\_\_\_

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

5)  $46 \div 22 =$  \_\_\_\_\_

6)  $114 \div 11 =$  \_\_\_\_\_

7)  $230 \div 28 =$  \_\_\_\_\_

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

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

10)  $168 \div 17 =$  \_\_\_\_\_

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

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

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

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

15)  $73 \div 12 =$  \_\_\_\_\_

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)  $195 \div 30 =$  2

2)  $161 \div 18 =$   $2 \times 3 \times 3$

3)  $49 \div 24 =$   $2 \times 2 \times 2 \times 3$

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

5)  $46 \div 22 =$  11

6)  $114 \div 11 =$  11

7)  $230 \div 28 =$   $2 \times 7$

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

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

10)  $168 \div 17 =$  17

11)  $\frac{3}{4} =$   $2 \times 2$

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

13)  $\frac{11}{25} =$   $5 \times 5$

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

15)  $73 \div 12 =$   $2 \times 2 \times 3$

Answers

1. T

2. R

3. R

4. T

5. R

6. R

7. R

8. R

9. R

10. R

11. T

12. T

13. T

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)  $\frac{7}{30} =$  \_\_\_\_\_
- 2)  $\frac{12}{13} =$  \_\_\_\_\_
- 3)  $182 \div 25 =$  \_\_\_\_\_
- 4)  $\frac{4}{12} =$  \_\_\_\_\_
- 5)  $\frac{24}{29} =$  \_\_\_\_\_
- 6)  $201 \div 22 =$  \_\_\_\_\_
- 7)  $82 \div 8 =$  \_\_\_\_\_
- 8)  $\frac{2}{3} =$  \_\_\_\_\_
- 9)  $51 \div 21 =$  \_\_\_\_\_
- 10)  $\frac{6}{16} =$  \_\_\_\_\_
- 11)  $255 \div 26 =$  \_\_\_\_\_
- 12)  $\frac{1}{5} =$  \_\_\_\_\_
- 13)  $\frac{3}{4} =$  \_\_\_\_\_
- 14)  $148 \div 15 =$  \_\_\_\_\_
- 15)  $\frac{18}{28} =$  \_\_\_\_\_

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



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

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.

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

1)  $\frac{7}{30} =$  2×3×5

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

3)  $182 \div 25 =$  5×5

4)  $\frac{4}{12} =$  3

5)  $\frac{24}{29} =$  29

6)  $201 \div 22 =$  2×11

7)  $82 \div 8 =$  2×2

8)  $\frac{2}{3} =$  3

9)  $51 \div 21 =$  7

10)  $\frac{6}{16} =$  2×2×2

11)  $255 \div 26 =$  2×13

12)  $\frac{1}{5} =$  5

13)  $\frac{3}{4} =$  2×2

14)  $148 \div 15 =$  3×5

15)  $\frac{18}{28} =$  2×7

Answers

1. R

2. R

3. T

4. R

5. R

6. R

7. T

8. R

9. R

10. T

11. R

12. T

13. T

14. R

15. R





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.

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

- 1)  $\frac{22}{27} =$  \_\_\_\_\_
- 2)  $\frac{8}{28} =$  \_\_\_\_\_
- 3)  $\frac{10}{20} =$  \_\_\_\_\_
- 4)  $\frac{5}{16} =$  \_\_\_\_\_
- 5)  $62 \div 13 =$  \_\_\_\_\_
- 6)  $63 \div 6 =$  \_\_\_\_\_
- 7)  $73 \div 11 =$  \_\_\_\_\_
- 8)  $\frac{17}{29} =$  \_\_\_\_\_
- 9)  $\frac{10}{19} =$  \_\_\_\_\_
- 10)  $\frac{17}{24} =$  \_\_\_\_\_
- 11)  $78 \div 15 =$  \_\_\_\_\_
- 12)  $206 \div 21 =$  \_\_\_\_\_
- 13)  $101 \div 10 =$  \_\_\_\_\_
- 14)  $64 \div 7 =$  \_\_\_\_\_
- 15)  $\frac{3}{26} =$  \_\_\_\_\_

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



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

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.

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

1)  $\frac{22}{27} =$  3×3×3

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

3)  $\frac{10}{20} =$  2

4)  $\frac{5}{16} =$  2×2×2×2

5)  $62 \div 13 =$  13

6)  $63 \div 6 =$  2

7)  $73 \div 11 =$  11

8)  $\frac{17}{29} =$  29

9)  $\frac{10}{19} =$  19

10)  $\frac{17}{24} =$  2×2×2×3

11)  $78 \div 15 =$  5

12)  $206 \div 21 =$  3×7

13)  $101 \div 10 =$  2×5

14)  $64 \div 7 =$  7

15)  $\frac{3}{26} =$  2×13

Answers

1. R

2. R

3. T

4. T

5. R

6. T

7. R

8. R

9. R

10. R

11. T

12. R

13. T

14. R

15. R



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.

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

1)  $156 \div 16 =$  \_\_\_\_\_

2)  $\frac{20}{29} =$  \_\_\_\_\_

3)  $68 \div 25 =$  \_\_\_\_\_

4)  $\frac{8}{11} =$  \_\_\_\_\_

5)  $202 \div 20 =$  \_\_\_\_\_

6)  $\frac{2}{3} =$  \_\_\_\_\_

7)  $\frac{4}{23} =$  \_\_\_\_\_

8)  $\frac{8}{9} =$  \_\_\_\_\_

9)  $186 \div 24 =$  \_\_\_\_\_

10)  $\frac{2}{6} =$  \_\_\_\_\_

11)  $127 \div 26 =$  \_\_\_\_\_

12)  $\frac{7}{21} =$  \_\_\_\_\_

13)  $36 \div 17 =$  \_\_\_\_\_

14)  $\frac{3}{4} =$  \_\_\_\_\_

15)  $7 \div 2 =$  \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



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

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.

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

1)  $156 \div 16 =$  2x2

2)  $\frac{20}{29} =$  29

3)  $68 \div 25 =$  5x5

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

5)  $202 \div 20 =$  2x5

6)  $\frac{2}{3} =$  3

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

8)  $\frac{8}{9} =$  3x3

9)  $186 \div 24 =$  2x2

10)  $\frac{2}{6} =$  3

11)  $127 \div 26 =$  2x13

12)  $\frac{7}{21} =$  3

13)  $36 \div 17 =$  17

14)  $\frac{3}{4} =$  2x2

15)  $7 \div 2 =$  2

Answers

1. T

2. R

3. T

4. R

5. T

6. R

7. R

8. R

9. T

10. R

11. R

12. R

13. R

14. T

15. T