

EduSahara™ Learning Center Assignment**Grade : Class VII, ICSE****Chapter : Decimals****Name : Recurring and Non-recurring decimals****Licensed To : Teachers and Students for non-commercial use**

1. Find the period of the recurring decimal $17.\overline{761904}$

(i) 761904 (ii) 7619040 (iii) 76190 (iv) 6 (v) 7

2. Find the period of the recurring decimal $29.22222222222222...$

(i) 1 (ii) 0 (iii) 20 (iv) 2

3. Find the periodicity of the recurring decimal $11.9\overline{4}$

(i) 2 (ii) 4 (iii) 0 (iv) 1 (v) -1

4. Find the periodicity of the recurring decimal $21.11111111111111...$

(i) 1 (ii) 0 (iii) -1 (iv) 2

5. The recurring part of the decimal $3.\overline{518}$ is

(i) 51853 (ii) 5185518 (iii) 518518 (iv) 518 (v) 3.518

6. The recurring part of the decimal $5.77777777777777...$ is

(i) 77 (ii) 777 (iii) 7 (iv) 775 (v) 5.7

7. Convert the non-terminating recurring decimal $10.3\overline{8}$ to rational number

(i) $\frac{185}{18}$ (ii) $\frac{187}{18}$ (iii) $\frac{187}{20}$ (iv) $\frac{187}{16}$ (v) $\frac{21}{2}$

8. Convert the non-terminating recurring decimal $10.88888888888888...$ to rational number

(i) $\frac{100}{9}$ (ii) $\frac{32}{3}$ (iii) 14 (iv) $\frac{98}{11}$ (v) $\frac{98}{9}$

9. Convert the fraction $\frac{265}{9}$ to non-terminating recurring decimal

- (i) $2.9\overline{4}$ (ii) $29.\overline{4}$ (iii) $0.29\overline{4}$ (iv) $2944.\overline{4}$ (v) $294.\overline{4}$
-

10. Convert the fraction $\frac{169}{9}$ to non-terminating recurring decimal

- (i) $0.18\overline{7}$ (ii) $1.8\overline{7}$ (iii) $187.\overline{7}$ (iv) $18.\overline{7}$ (v) $1877.\overline{7}$
-

11. Which of the following fractions converts to a non-terminating recurring decimal?

- (i) $\frac{107}{8}$ (ii) $\frac{1980}{160}$ (iii) $\frac{99}{4}$ (iv) $\frac{92}{9}$ (v) $\frac{6120}{80}$
-

12. Which of the following fractions converts to a terminating decimal?

- (i) $\frac{92}{9}$ (ii) $\frac{227}{99}$ (iii) $\frac{227}{252}$ (iv) $\frac{2574}{128}$ (v) $\frac{227}{18}$
-

13. Which of the following is a pure recurring decimal?

- (i) 0.78888888888888...
(ii) 0.03333333333333...
(iii) 15.22222222222222...
(iv) 0.74444444444444...
(v) 0.52222222222222...
-

14. Which of the following is a mixed recurring decimal?

- (i) 17.77777777777777...
(ii) 0.33333333333333...
(iii) 0.65555555555555...
(iv) 25.85185185185185...
(v) 23.55555555555555...
-

15. Find the period of the recurring decimal $10.9\overline{4}$

- (i) 4 (ii) 40 (iii) 2 (iv) 1 (v) 0
-

16. Find the period of the recurring decimal $0.33333333333333...$

- (i) 2 (ii) 3 (iii) 30 (iv) 0 (v) 1

17. Find the periodicity of the recurring decimal $1.2\overline{7}$

- (i) 0 (ii) 2 (iii) -1 (iv) 1 (v) 7
-

18. Find the periodicity of the recurring decimal $12.61904761904761\dots$

- (i) 7 (ii) 5 (iii) 619047 (iv) 6 (v) 4
-

19. The recurring part of the decimal $0.\overline{3}$ is

- (i) 330 (ii) 3 (iii) 33 (iv) 0.3 (v) 333
-

20. The recurring part of the decimal $14.61904761904761\dots$ is

- (i) 6190476619047 (ii) 61904761 (iii) 14.619047
(iv) 619047619047 (v) 619047
-

21. Convert the non-terminating recurring decimal $21.\overline{2}$ to rational number

- (i) $\frac{191}{7}$ (ii) 21 (iii) $\frac{191}{11}$ (iv) $\frac{191}{9}$ (v) $\frac{193}{9}$
-

22. Convert the non-terminating recurring decimal $26.222222222222\dots$ to rational number

- (i) $\frac{236}{7}$ (ii) 26 (iii) $\frac{238}{9}$ (iv) $\frac{236}{11}$ (v) $\frac{236}{9}$
-

23. Convert the fraction $\frac{187}{9}$ to non-terminating recurring decimal

- (i) $20.\overline{7}$ (ii) $207.\overline{7}$ (iii) $0.20\overline{7}$ (iv) $2077.\overline{7}$ (v) $20.\overline{7}$
-

24. Convert the fraction $\frac{728}{27}$ to non-terminating recurring decimal

- (i) $2696.\overline{296}$ (ii) $0.26\overline{962}$ (iii) $269.\overline{629}$ (iv) $26.\overline{962}$ (v) $2.6\overline{962}$
-

25. Which of the following fractions converts to a non-terminating recurring decimal?

- (i) $\frac{60}{1}$ (ii) $\frac{149}{9}$ (iii) $\frac{3000}{100}$ (iv) $\frac{31}{1}$ (v) $\frac{2912}{32}$
-

26. Which of the following fractions converts to a terminating decimal?

- (i) $\frac{2376}{100}$ (ii) $\frac{227}{198}$ (iii) $\frac{152}{9}$ (iv) $\frac{227}{18}$ (v) $\frac{227}{153}$
-

27. Which of the following is a pure recurring decimal?

- (i) 0.177777777777777...
(ii) 0.033333333333333...
(iii) 0.244444444444444...
(iv) 0.622222222222222...
(v) 18.38095238095237...
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28. Which of the following is a mixed recurring decimal?

- (i) 24.37037037037037...
(ii) 18.09523809523809...
(iii) 23.47619047619047...
(iv) 21.92592592592592...
(v) 0.277777777777777...
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Assignment Key

- 1) (i)
- 2) (iv)
- 3) (iv)
- 4) (i)
- 5) (iv)
- 6) (iii)
- 7) (ii)
- 8) (v)
- 9) (ii)
- 10) (iv)
- 11) (iv)
- 12) (iv)
- 13) (iii)
- 14) (iii)
- 15) (i)
- 16) (ii)
- 17) (iv)
- 18) (iv)
- 19) (ii)
- 20) (v)
- 21) (iv)
- 22) (v)
- 23) (v)
- 24) (iv)
- 25) (ii)
- 26) (i)
- 27) (v)
- 28) (v)