

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Converting a fraction to a repeating decimal

1. $\frac{1}{3}$

2. $\frac{2}{3}$

3. $\frac{1}{9}$

4. $\frac{4}{9}$

5. $\frac{7}{9}$

6. $\frac{5}{6}$

7. $\frac{1}{6}$

8. $\frac{1}{11}$

9. $\frac{5}{11}$

10. $\frac{10}{11}$

11. $\frac{1}{7}$

12. $\frac{2}{7}$

13. $\frac{3}{7}$

14. $\frac{4}{7}$

15. $\frac{5}{7}$

16. $\frac{6}{7}$

17. $\frac{8}{27}$

Converting repeating decimals to fractions (part 1: pure repeating decimals)

18. 0.(3)

19. 0.(6)

20. 0.(12)

21. 0.(45)

22. 0.(09)

23. 0.(81)

24. 0.(142857)

25. 0.(285714)

26. 0.(04)

27. 0.(7)

28. 0.(54)

29. 0.(2)

30. 0.(08)



Math Worksheet for 8th Grade

Repeating decimals

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31. $0.(13)$

32. $0.(74)$

33. $0.(9)$

Converting repeating decimals to fractions (part 2: mixed — non-repeating + repeating)

34. $0.1(6)$ (meaning $0.1666\dots$)

35. $0.1(3)$ ($0.13333\dots$)

36. $0.2(7)$ ($0.27777\dots$)

37. $0.58(3)$ ($0.58333\dots$)

38. $0.45(6)$ ($0.456666\dots$)

39. $0.06(6)$ ($0.06666\dots$)

40. $2.3(3)$ ($2.33333\dots$)

41. $0.8(3)$ ($0.83333\dots$)

42. $0.12(3)$ ($0.12333\dots$)

43. $0.04(5)$ ($0.045555\dots$)

44. $0.7(2)$ ($0.72222\dots$)

45. $1.0(3)$ ($1.03333\dots$)

46. $0.02(5)$ ($0.025555\dots$)

47. $0.36(6)$ ($0.36666\dots$)

48. $0.24(6)$ ($0.246666\dots$)

49. $0.05(2)$ ($0.052222\dots$)

50. $3.1(6)$ ($3.16666\dots$)