



Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

## Math Worksheet for 7th Grade

### Converting fractions to decimals

1. Rewrite the decimal 2.75 as a fraction in simplest form.
2. Rewrite 0.5 as a fraction.
3. Rewrite 0.125 as a fraction.
4. Rewrite 3.2 as a fraction in simplest form.
5. Rewrite 0.04 as a fraction in simplest form.
6. Rewrite 1.25 as a fraction.
7. Rewrite 0.08 as a fraction in simplest form.
8. Rewrite 4.0 as a fraction.
9. Rewrite 6.375 as a fraction in simplest form.
10. Rewrite 0.333... (repeating) as a fraction.
11. Convert the fraction  $\frac{7}{8}$  to a decimal (show the converted value).
12. Convert  $\frac{11}{25}$  to a decimal.
13. Convert  $\frac{3}{4}$  to a decimal.
14. Convert  $\frac{1}{3}$  to a decimal (write the repeating decimal).
15. Convert  $\frac{5}{16}$  to a decimal.
16. Convert  $\frac{2}{5}$  to a decimal.
17. Convert  $\frac{13}{20}$  to a decimal.
18. Convert  $\frac{7}{40}$  to a decimal.
19. Convert  $\frac{9}{11}$  to a decimal (write the repeating pattern).
20. Convert  $\frac{14}{125}$  to a decimal.
21. Convert  $\frac{1}{3}$  to a decimal and round it to 2 decimal places.
22. Convert  $\frac{5}{6}$  to a decimal and round it to 2 decimal places.
23. Convert  $\frac{11}{25}$  to a decimal and round it to 3 decimal places.
24. Convert  $\frac{7}{8}$  to a decimal and round it to 2 decimal places.
25. Convert  $\frac{2}{3}$  to a decimal and round it to 1 decimal place.
26. Convert  $\frac{7}{12}$  to a decimal and round it to 2 decimal places.
27. Convert  $\frac{13}{16}$  to a decimal and round it to 3 decimal places.
28. Convert  $\frac{1}{7}$  to a decimal and round it to 4 decimal places.
29. Convert  $\frac{19}{50}$  to a decimal and round it to 2 decimal places.
30. Convert  $\frac{37}{40}$  to a decimal and round it to 1 decimal place.
31. Put the correct sign (<, >, =) between each pair:
  - a)  $\frac{3}{5}$  \_\_\_ 0.6



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b)  $\frac{7}{8}$  \_\_\_ 0.87

c) 0.333... \_\_\_  $\frac{1}{3}$

d)  $\frac{11}{25}$  \_\_\_ 0.44

e)  $\frac{5}{8}$  \_\_\_ 0.625

32. Order the numbers from least to greatest: 0.5,  $\frac{3}{10}$ ,  $\frac{7}{12}$ .

33. Order the numbers from greatest to least: 0.875,  $\frac{11}{12}$ , 0.9.

34. Which is larger:  $\frac{2}{3}$  or 0.67? Explain by converting to decimals.

35. Compare  $\frac{4}{9}$  and 0.44. Which is greater? Explain with decimals.

36. A recipe calls for  $\frac{7}{8}$  cup of milk. How many cups is that as a decimal?

37. A water tank is  $\frac{11}{25}$  full. What fraction of the tank is that written as a decimal (in liters if the tank holds 100 L)?

38. A runner completed  $\frac{7}{12}$  of a 5 km race. How many kilometers did the runner complete? Give the answer as a decimal rounded to two decimal places.

39. A ribbon is 0.625 meters long. Rewrite this length as a fraction.

40. A store marks down an item by  $\frac{2}{5}$  of its price. If the original price is \$80, how much is the discount as a decimal and how much do you pay?

41. Jenny drank  $\frac{3}{4}$  of a jug of juice. The jug holds 2 liters. How many liters did she drink? Give the answer as a decimal.

42. You have  $\frac{9}{11}$  of a meter of cloth. How long is this in decimal meters (write the repeating decimal)?

43. A painting is 0.44 of a meter wide. Express this width as a fraction.

44. Round the decimal form of  $\frac{5}{24}$  to three decimal places and explain how you rounded.

45. A car traveled  $\frac{37}{40}$  of a mile. What is the distance in decimal miles rounded to one decimal place?

46. A student scored  $\frac{14}{25}$  on a small test (out of 25 points). What is the score as a decimal out of 1, and as a percentage?

47. Convert  $\frac{17}{20}$  to a decimal and then to a percentage.

48. A contractor says he has completed 0.875 of a project. Write this as a fraction and state how much is left as a decimal.

49. Order the following from least to greatest: 0.44,  $\frac{3}{7}$ ,  $\frac{11}{25}$ , 0.42. (Convert to decimals to decide.)

50. A bag contains 8 red marbles out of 25 marbles total. Express the probability of drawing a red marble as a decimal and round it to three decimal places.