

Name _____ Class _____ Date _____
: _____ : _____ e: _____

UNIT 02—DECIMAL FRACTIONS

Write the following as a decimal.

1. Three and one thousandth _____

ANSWER: 3.001

2. One tenth _____

ANSWER: 0.1

3. Four and fifty-six one hundredths _____

ANSWER: 4.56

4. Twelve and three tenths _____

ANSWER: 12.3

Convert the following fractions to decimals.

5. $\frac{3}{10}$ _____

ANSWER: 0.3

6. $\frac{27}{100}$ _____

ANSWER: 0.27

7. $\frac{31}{1000}$ _____

ANSWER: 0.031

8. $\frac{58}{10,000}$ _____

ANSWER: 0.0058

9. $\frac{276}{100,000}$ _____

ANSWER: 0.00276

Subtract the following decimals.

10. $178.96 - 25.78 =$ _____

ANSWER: 153.18

11. $2.85 - 1.99 =$ _____

ANSWER: 0.86

12. $25.507 - 12.123 =$ _____

ANSWER: 13.384

13. $0.0078 - 0.0021 =$ _____

ANSWER: 0.0057

Add the following decimals.

14. $0.6 + 0.89 =$ _____

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ANSWER: 1.49

15. $25.5 + 50.89 =$ _____

ANSWER: 76.39

16. $0.125 + 0.25 =$ _____

ANSWER: 0.375

17. $10.25 + 110.25 + 1110.25 =$ _____

ANSWER: 1230.75

Multiply the following decimals.

18. $2.789 \times 1.458 =$ _____

ANSWER: 4.0664

19. $1.5 \times 9.5 =$ _____

ANSWER: 14.25

20. $0.6 \times 10.6 =$ _____

ANSWER: 6.36

21. $10.000 \times 0.5 =$ _____

ANSWER: 5

22. $126.87 \times 4.1 =$ _____

ANSWER: 520.167

Divide the following decimals.

23. $28.825 \div 5 =$ _____

ANSWER: 5.765

24. $0.028 \div 7 =$ _____

ANSWER: 0.004

25. $56.64 \div 8 =$ _____

ANSWER: 7.08

26. $0.005 \div 10 =$ _____

ANSWER: 0.0005

27. $75 \div 0.15 =$ _____

ANSWER: 500

28. $28.4 \div 0.32 =$ _____

ANSWER: 88.75

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29. $28.4 \div 0.32 =$ _____

ANSWER: 88.75

Express the following common fractions as percents.

30. $\frac{3}{5} =$ _____

ANSWER: 60%

31. $\frac{39}{50} =$ _____

ANSWER: 78%

Match each term with its meaning.

- a. decimal place
- b. multiplication
- c. decimal
- d. decimal point
- e. decimal fraction
- f. multiplier
- g. decimal system
- h. continuing number
- i. whole number
- j. power of 10

32. process of multiplying tens together

ANSWER: j

33. period placed to the left of a decimal fraction

ANSWER: d

34. process of finding the product of numbers

ANSWER: b

35. number system based upon multiples of 10

ANSWER: g

36. number that does not come out evenly

ANSWER: h

37. position of a number to the left or right of a decimal point

ANSWER: a

38. linear array of numbers based upon multiples of 10

ANSWER: c

39. number by which another number is multiplied

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ANSWER:

f

40. number to the left of the decimal point

ANSWER:

i

41. expressed by placing a decimal point before the numerator

ANSWER:

e