

CHAPTER
9

Multiplying and Dividing Decimals

Worksheet 1 Multiplying Decimals

Multiply. Write the product as a decimal.

Example

$$2 \text{ tenths} \times 3 = \underline{6} \text{ tenths}$$

$$\text{So, } 0.2 \times 3 = \underline{6} \text{ tenths}$$

$$= \underline{0.6}$$

The **product** is 0.6.



1. $4 \text{ tenths} \times 2 = \underline{\hspace{2cm}} \text{ tenths}$

$$\text{So, } 0.4 \times 2 = \underline{\hspace{2cm}} \text{ tenths}$$

$$= \underline{\hspace{2cm}}$$

2. $3 \text{ tenths} \times 3 = \underline{\hspace{2cm}} \text{ tenths}$

$$\text{So, } 0.3 \times 3 = \underline{\hspace{2cm}} \text{ tenths}$$

$$= \underline{\hspace{2cm}}$$

3. $8 \text{ tenths} \times 5 = \underline{\hspace{2cm}} \text{ tenths}$

$$\text{So, } 0.8 \times 5 = \underline{\hspace{2cm}} \text{ tenths}$$

$$= \underline{\hspace{2cm}}$$

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4. 4 tenths \times 4 = _____ tenths

So, $0.4 \times 4 =$ _____ tenths

= _____.

5. 6 tenths \times 7 = _____ tenths

So, $0.6 \times 7 =$ _____ tenths

= _____.

Multiply.

Example

$$0.2 \times 4 = \underline{0.8}$$

6. $0.3 \times 2 =$ _____

7. $0.3 \times 4 =$ _____

8. $0.4 \times 6 =$ _____

Multiply.

Example

$$\begin{array}{r} 0.3 \\ \times 3 \\ \hline 0.9 \end{array}$$

9. $\begin{array}{r} 0.6 \\ \times 4 \\ \hline \end{array}$

10. $\begin{array}{r} 0.5 \\ \times 8 \\ \hline \end{array}$

11. $\begin{array}{r} 0.7 \\ \times 3 \\ \hline \end{array}$

12. $\begin{array}{r} 0.9 \\ \times 5 \\ \hline \end{array}$

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Fill in the blanks.

Example

$$2 \text{ ones} + 50 \text{ tenths} = \underline{7 \text{ ones}}$$

13. $4 \text{ ones} + 20 \text{ tenths} = \underline{\hspace{2cm}} \text{ ones}$

14. $6 \text{ ones} + 30 \text{ tenths} = \underline{\hspace{2cm}} \text{ ones}$

15. $9 \text{ ones} + 40 \text{ tenths} = \underline{\hspace{2cm}} \text{ ones}$

Fill in the blanks.

Example

$$12 \text{ tenths} = \underline{1} \text{ ones and } \underline{2} \text{ tenths}$$

16. $24 \text{ tenths} = \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$

17. $37 \text{ tenths} = \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$

18. $101 \text{ tenths} = \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenth}$

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Multiply. Fill in the blanks.

Example

$$4 \text{ tenths} \times 3 = \underline{12} \text{ tenths}$$
$$= \underline{1} \text{ one and } \underline{2} \text{ tenths}$$

19. $6 \text{ tenths} \times 4 = \underline{\hspace{2cm}} \text{ tenths}$
 $= \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$

20. $5 \text{ tenths} \times 7 = \underline{\hspace{2cm}} \text{ tenths}$
 $= \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$

21. $8 \text{ tenths} \times 6 = \underline{\hspace{2cm}} \text{ tenths}$
 $= \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$

Multiply. Fill in the blanks.

Example

$$2 \text{ ones and } 4 \text{ tenths} \times 2 = \underline{4} \text{ ones and } \underline{8} \text{ tenths}$$

22. $3 \text{ ones and } 2 \text{ tenths} \times 4 = \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$

23. $7 \text{ ones and } 1 \text{ tenth} \times 6 = \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$

24. $6 \text{ ones and } 3 \text{ tenths} \times 3 = \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$

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Multiply. Fill in the blanks.

Example

$$2.8 \times 5 \rightarrow 8 \text{ tenths} \times 5 = \underline{40} \text{ tenths}$$

$$\underline{40} \text{ tenths} = \underline{4} \text{ ones and } \underline{0} \text{ tenths}$$

$$2 \text{ ones} \times 5 = \underline{10} \text{ ones}$$

$$\underline{4} \text{ ones} + \underline{10} \text{ ones} = \underline{14} \text{ ones}$$

$$\text{So, } 2.8 \times 5 = \underline{14.0}.$$

Multiply 4.7 by 3. Fill in the blanks.

25. $4.7 \times 3 \rightarrow 7 \text{ tenths} \times 3 = \underline{\hspace{2cm}} \text{ tenths}$

$$\underline{\hspace{2cm}} \text{ tenths} = \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenth}$$

$$4 \text{ ones} \times 3 = \underline{\hspace{2cm}} \text{ ones}$$

$$\underline{\hspace{2cm}} \text{ ones} + \underline{\hspace{2cm}} \text{ ones} = \underline{\hspace{2cm}} \text{ ones}$$

$$\text{So, } 4.7 \times 3 = \underline{\hspace{2cm}}.$$

Multiply 5.6 by 4. Fill in the blanks.

26. $5.6 \times 4 \rightarrow 6 \text{ tenths} \times 4 = \underline{\hspace{2cm}} \text{ tenths}$

$$\underline{\hspace{2cm}} \text{ tenths} = \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$$

$$5 \text{ ones} \times 4 = \underline{\hspace{2cm}} \text{ ones}$$

$$\underline{\hspace{2cm}} \text{ ones} + \underline{\hspace{2cm}} \text{ ones} = \underline{\hspace{2cm}} \text{ ones}$$

$$\text{So, } 5.6 \times 4 = \underline{\hspace{2cm}}.$$

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Multiply 6.8 by 7. Fill in the blanks.

- 27.** $6.8 \times 7 \rightarrow 8 \text{ tenths} \times 7 = \underline{\hspace{2cm}}$ tenths
 $\underline{\hspace{2cm}}$ tenths = $\underline{\hspace{2cm}}$ ones and $\underline{\hspace{2cm}}$ tenths
 $6 \text{ ones} \times 7 = \underline{\hspace{2cm}}$ ones
 $\underline{\hspace{2cm}}$ ones + $\underline{\hspace{2cm}}$ ones = $\underline{\hspace{2cm}}$ ones
So, $6.8 \times 7 = \underline{\hspace{2cm}}$.

Multiply 3.7 by 4. Fill in the blanks.

- 28.** $3.7 \times 4 \rightarrow 7 \text{ tenths} \times 4 = \underline{\hspace{2cm}}$ tenths
 $\underline{\hspace{2cm}}$ tenths = $\underline{\hspace{2cm}}$ ones and $\underline{\hspace{2cm}}$ tenths
 $3 \text{ ones} \times 4 = \underline{\hspace{2cm}}$ ones
 $\underline{\hspace{2cm}}$ ones + $\underline{\hspace{2cm}}$ ones = $\underline{\hspace{2cm}}$ ones
So, $3.7 \times 4 = \underline{\hspace{2cm}}$.

Multiply 1.6 by 6. Fill in the blanks.

- 29.** $1.6 \times 6 \rightarrow 6 \text{ tenths} \times 6 = \underline{\hspace{2cm}}$ tenths
 $\underline{\hspace{2cm}}$ tenths = $\underline{\hspace{2cm}}$ ones and $\underline{\hspace{2cm}}$ tenths
 $1 \text{ one} \times 6 = \underline{\hspace{2cm}}$ ones
 $\underline{\hspace{2cm}}$ ones + $\underline{\hspace{2cm}}$ ones = $\underline{\hspace{2cm}}$ ones
So, $1.6 \times 6 = \underline{\hspace{2cm}}$.

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Multiply.

30. 2.8
 × 8

31. 4.7
 × 7

32. 6.9
 × 2

Multiply. Write the product as a decimal.

Example

3 hundredths \times 2 = 6 hundredths

So, $0.03 \times 2 =$ 6 hundredths

$=$ 0.06 .

33. 3 hundredths \times 3 = _____ hundredths

So, $0.03 \times 3 =$ _____ hundredths

$=$ _____.

34. 2 hundredths \times 4 = _____ hundredths

So, $0.02 \times 4 =$ _____ hundredths

$=$ _____.

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Multiply. Write the product as a decimal.

35. $0.02 \times 3 =$ _____

36. $0.03 \times 4 =$ _____

37. $0.04 \times 4 =$ _____

38. $0.01 \times 5 =$ _____

Fill in the blanks.

Example

23 hundredths = 2 tenths 3 hundredths

39. 47 hundredths = _____ tenths _____ hundredths

40. 80 hundredths = _____ tenths _____ hundredths

41. 59 hundredths = _____ tenths _____ hundredths

Fill in the blanks.

42. $4 \text{ hundredths} + 8 \text{ hundredths} =$ _____ hundredths
 $=$ _____ tenth _____ hundredths

43. $9 \text{ hundredths} + 5 \text{ hundredths} =$ _____ hundredths
 $=$ _____ tenth _____ hundredths

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Multiply. Fill in the blanks.

Example

$$\begin{aligned} 5 \text{ hundredths} \times 3 &= \underline{15} \text{ hundredths} \\ &= \underline{1} \text{ tenth } \underline{5} \text{ hundredths} \end{aligned}$$

44. $4 \text{ hundredths} \times 7 = \underline{\hspace{2cm}} \text{ hundredths}$
 $= \underline{\hspace{2cm}} \text{ tenths } \underline{\hspace{2cm}} \text{ hundredths}$

45. $6 \text{ hundredths} \times 8 = \underline{\hspace{2cm}} \text{ hundredths}$
 $= \underline{\hspace{2cm}} \text{ tenths } \underline{\hspace{2cm}} \text{ hundredths}$

Multiply.

46.
$$\begin{array}{r} 0.04 \\ \times 3 \\ \hline \end{array}$$

47.
$$\begin{array}{r} 0.02 \\ \times 9 \\ \hline \end{array}$$

48.
$$\begin{array}{r} 0.05 \\ \times 3 \\ \hline \end{array}$$

49.
$$\begin{array}{r} 0.04 \\ \times 5 \\ \hline \end{array}$$

Multiply. Fill in the blanks.

Example

$$\begin{aligned} 4 \text{ tenths } 2 \text{ hundredths} \times 2 &= \underline{8} \text{ tenths } + \\ &\quad \underline{0} \text{ tenths } \underline{4} \text{ hundredths} \\ &= \underline{8} \text{ tenths } \underline{4} \text{ hundredths} \end{aligned}$$

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50. 1 tenth 4 hundredths $\times 6 =$ _____ tenths +
_____ tenths _____ hundredths
 $=$ _____ tenths _____ hundredths

51. 2 tenths 3 hundredths $\times 7 =$ _____ tenths +
_____ tenths _____ hundredth
 $=$ _____ tenths _____ hundredth

52. 3 tenths 2 hundredths $\times 8 =$ _____ tenths +
_____ tenth _____ hundredths
 $=$ _____ tenths _____ hundredths

Multiply. Fill in the blanks.

Example

$$8 \text{ hundredths} \times 3 = \underline{24} \text{ hundredths}$$
$$= \underline{2} \text{ tenths} \underline{4} \text{ hundredths}$$

So, $0.08 \times 3 = \underline{0.24}$.

Multiply 0.05 by 7. Fill in the blanks.

53. 5 hundredths $\times 7 =$ _____ hundredths
 $=$ _____ tenths _____ hundredths

So, $0.05 \times 7 =$ _____.

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Multiply 0.49 by 2. Fill in the blanks.

- 54.** 9 hundredths \times 2 = _____ hundredths
_____ hundredths = _____ tenth _____ hundredths
4 tenths \times 2 = _____ tenths
_____ tenth + _____ tenths = _____ tenths
_____ tenths = _____ ones and _____ tenths
So, $0.49 \times 2 =$ _____.

Multiply 0.25 by 3. Fill in the blanks.

- 55.** 5 hundredths \times 3 = _____ hundredths
_____ hundredths = _____ tenth _____ hundredths
2 tenths \times 3 = _____ tenths
_____ tenth + _____ tenths = _____ tenths
_____ tenths = _____ ones and _____ tenths
So, $0.25 \times 3 =$ _____.

Multiply 0.43 by 4. Fill in the blanks.

- 56.** 3 hundredths \times 4 = _____ hundredths
_____ hundredths = _____ tenth _____ hundredths
4 tenths \times 4 = _____ tenths
_____ tenth + _____ tenths = _____ tenths
_____ tenths = _____ one and _____ tenths
So, $0.43 \times 4 =$ _____.

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Multiply 0.67 by 5. Fill in the blanks.

57. 7 hundredths \times 5 = _____ hundredths
_____ hundredths = _____ tenths _____ hundredths
6 tenths \times 5 = _____ tenths
_____ tenths + _____ tenths = _____ tenths
_____ tenths = _____ ones and _____ tenths
So, $0.67 \times 5 =$ _____.

Multiply.

58.
$$\begin{array}{r} 1.45 \\ \times 3 \\ \hline \end{array}$$

59.
$$\begin{array}{r} 2.36 \\ \times 4 \\ \hline \end{array}$$

60.
$$\begin{array}{r} 3.58 \\ \times 6 \\ \hline \end{array}$$

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Worksheet 2 Multiplying by Tens, Hundreds, or Thousands

Place the decimal point in the correct place in the product.

Example

$$4.35 \times 10 = 43.5$$

When you multiply a decimal by 10, move the decimal point 1 decimal place to the right.



1. $1.28 \times 10 = 128$

2. $4.75 \times 10 = 475$

3. $0.36 \times 10 = 36$

4. $0.92 \times 10 = 92$

5. $3.45 \times 10 = 345$

6. $0.81 \times 10 = 81$

7. $6.4 \times 10 = 64$

8. $7.8 \times 10 = 78$

9. $0.7 \times 10 = 7$

10. $0.9 \times 10 = 9$

11. $5.3 \times 10 = 53$

12. $0.4 \times 10 = 4$

13. $0.375 \times 10 = 375$

14. $0.284 \times 10 = 284$

15. $1.693 \times 10 = 1693$

16. $2.438 \times 10 = 2438$

17. $0.736 \times 10 = 736$

18. $8.931 \times 10 = 8931$

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Multiply.

19. $1.39 \times 10 =$ _____

20. $2.47 \times 10 =$ _____

21. $0.84 \times 10 =$ _____

22. $0.94 \times 10 =$ _____

23. $7.2 \times 10 =$ _____

24. $6.3 \times 10 =$ _____

25. $0.8 \times 10 =$ _____

26. $0.2 \times 10 =$ _____

27. $0.481 \times 10 =$ _____

28. $0.179 \times 10 =$ _____

29. $2.435 \times 10 =$ _____

30. $6.582 \times 10 =$ _____

Complete.

31. $0.478 \times$ _____ $= 4.78$

32. $0.07 \times$ _____ $= 0.7$

33. $0.59 \times$ _____ $= 5.9$

34. $0.26 \times$ _____ $= 2.6$

35. _____ $\times 10 = 12.08$

36. _____ $\times 10 = 1.03$

37. _____ $\times 10 = 3.05$

38. _____ $\times 10 = 245.8$

39. $40 =$ _____ $\times 10$

40. $70 = 7 \times$ _____

41. $150 =$ _____ $\times 10$

42. $120 = 12 \times$ _____

43. $8 \times$ _____ $= 80$

44. _____ $\times 10 = 90$

45. $16 \times$ _____ $= 160$

46. _____ $\times 10 = 170$

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Complete.

Example

$$\begin{aligned} 5 \times 40 &= 5 \times \underline{4} \times 10 \\ &= \underline{20} \times 10 \\ &= \underline{200} \end{aligned}$$

47. $6 \times 70 = 6 \times \underline{\hspace{2cm}} \times 10$
 $= \underline{\hspace{2cm}} \times 10$
 $= \underline{\hspace{2cm}}$

48. $8 \times 120 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \times 10$
 $= \underline{\hspace{2cm}} \times 10$
 $= \underline{\hspace{2cm}}$

49. $11 \times 50 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \times 10$
 $= \underline{\hspace{2cm}} \times 10$
 $= \underline{\hspace{2cm}}$

50. $16 \times 180 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \times 10$
 $= \underline{\hspace{2cm}} \times 10$
 $= \underline{\hspace{2cm}}$

Name: _____

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Find each product.

Example

$$0.6 \times 80 = \underline{48}$$

$$0.6 \times 8 = 4.8$$

$$0.6 \times 80 = 48$$



51. $0.7 \times 90 =$ _____

52. $0.9 \times 50 =$ _____

53. $0.12 \times 40 =$ _____

54. $0.13 \times 60 =$ _____

55. $0.15 \times 50 =$ _____

56. $0.18 \times 30 =$ _____

57. $7.258 \times 100 =$ _____

58. $3.295 \times 200 =$ _____

59. $0.471 \times 300 =$ _____

60. $0.0384 \times 400 =$ _____

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Place the decimal point in the correct place in the product.

Example

$$2.54 \times 100 = 254.$$

When you multiply a decimal by 100, move the decimal point 2 decimal places to the right.



61. $1.375 \times 100 = 1375$

62. $2.679 \times 100 = 2679$

63. $0.472 \times 100 = 472$

64. $0.814 \times 100 = 814$

65. $5.78 \times 100 = 578$

66. $6.93 \times 100 = 693$

67. $0.38 \times 100 = 38$

68. $0.91 \times 100 = 91$

69. $6.3792 \times 1,000 =$

70. $4.1835 \times 1,000 =$

71. $0.0384 \times 1,000 =$

72. $0.0172 \times 1,000 =$

Name: _____

Date: _____

Place the decimal point in the correct place in the product.

Example

$$0.213 \times 1,000 = 213.$$

When you multiply a decimal by 1,000, move the decimal point 3 decimal places to the right.



73. $1.492 \times 1,000 = 1492$

74. $2.679 \times 1,000 = 2679$

75. $0.385 \times 1,000 = 385$

76. $0.496 \times 1,000 = 496$

77. $4.67 \times 1,000 = 467$

78. $5.82 \times 1,000 = 582$

79. $0.4 \times 1,000 = 4$

80. $0.1 \times 1,000 = 1$

Complete.

81. $0.583 \times \underline{\hspace{2cm}} = 58.3$

82. $0.07 \times \underline{\hspace{2cm}} = 70$

83. $0.481 \times \underline{\hspace{2cm}} = 48.1$

84. $0.032 \times \underline{\hspace{2cm}} = 32$

85. $\underline{\hspace{2cm}} \times 100 = 36.9$

86. $\underline{\hspace{2cm}} \times 1,000 = 204$

Name: _____

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87. _____ \times 1,000 = 48

88. _____ \times 100 = 91

89. 500 = _____ \times 100

90. 8,000 = 8 \times _____

91. 9,000 = _____ \times 1,000

92. 1,400 = 14 \times _____

93. 7 \times _____ = 700

94. _____ \times 1,000 = 6,000

95. 13 \times _____ = 13,000

96. _____ \times 100 = 2,600

Complete.

Example

$$\begin{aligned} 4 \times 500 &= 4 \times \underline{5} \times 100 \\ &= \underline{20} \times 100 \\ &= \underline{2,000} \end{aligned}$$

97. 3 \times 8,000 = 3 \times _____ \times 1,000

= _____ \times 1,000

= _____

98. 7 \times 1,100 = _____ \times _____ \times 100

= _____ \times 100

= _____

99. 12 \times 6,000 = _____ \times _____ \times 1,000

= _____ \times 1,000

= _____

Name: _____

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Find each product.

Example

$$7 \times 400 = \underline{2,800}$$

$$\begin{aligned} 7 \times 4 &= 28 \\ 7 \times 400 &= 2,800 \end{aligned}$$



100. $4 \times 8,000 =$ _____

101. $6 \times 900 =$ _____

102. $5 \times 6,000 =$ _____

103. $8 \times 700 =$ _____

Find each product.

Example

$$0.37 \times 200 = \underline{74}$$

$$\begin{aligned} 0.37 \times 2 &= 0.74 \\ 0.37 \times 200 &= 74 \end{aligned}$$



104. $0.13 \times 700 =$ _____

105. $1.2 \times 8,000 =$ _____

106. $1.5 \times 600 =$ _____

107. $0.17 \times 4,000 =$ _____

Name: _____

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Complete.

108. $10^2 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$

109. $10^3 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$

Simplify.

110. $10 \times 10 \times 10 = \underline{\hspace{2cm}}$

111. $10 \times 10 = \underline{\hspace{2cm}}$

Find each product.

Example

$2.54 \times 100 = 254.$

When you multiply a decimal by 100, move the decimal point 2 decimal places to the right.



112. $7.258 \times 100 = \underline{\hspace{2cm}}$

113. $3.295 \times 100 = \underline{\hspace{2cm}}$

114. $0.471 \times 100 = \underline{\hspace{2cm}}$

115. $0.0384 \times 100 = \underline{\hspace{2cm}}$

Name: _____

Date: _____

Find each product.

Example

$$0.213 \times 1,000 = 213.$$

When you multiply a decimal by 1,000, move the decimal point 3 decimal places to the right.



116. $3.792 \times 1,000 =$ _____

117. $1.835 \times 1,000 =$ _____

118. $0.0384 \times 1,000 =$ _____

119. $0.0172 \times 1,000 =$ _____

Find each product.

120. $2.478 \times 10^2 =$ _____

121. $0.587 \times 10^2 =$ _____

122. $1.3695 \times 10^3 =$ _____

123. $0.0478 \times 10^3 =$ _____

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Worksheet 3 Dividing Decimals

Divide. Fill in the blanks.

Example

$$8 \text{ tenths} \div 2 = \underline{4} \text{ tenths}$$

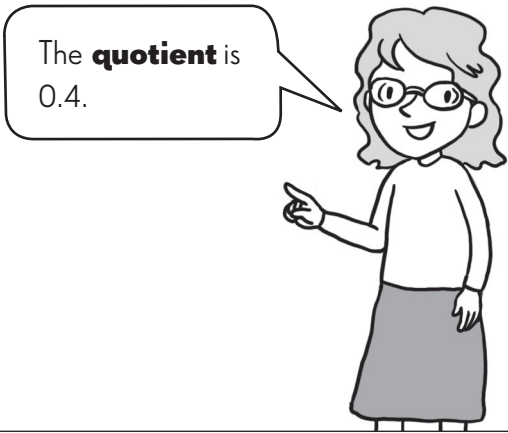
$$6 \text{ hundredths} \div 2 = \underline{3} \text{ hundredths}$$

1. $9 \text{ tenths} \div 3 = \underline{\hspace{2cm}} \text{ tenths}$
2. $12 \text{ hundredths} \div 4 = \underline{\hspace{2cm}} \text{ hundredths}$
3. $25 \text{ hundredths} \div 5 = \underline{\hspace{2cm}} \text{ hundredths}$
4. $16 \text{ tenths} \div 4 = \underline{\hspace{2cm}} \text{ tenths}$
5. $28 \text{ hundredths} \div 7 = \underline{\hspace{2cm}} \text{ hundredths}$
6. $48 \text{ hundredths} \div 6 = \underline{\hspace{2cm}} \text{ hundredths}$
7. $64 \text{ hundredths} \div 8 = \underline{\hspace{2cm}} \text{ hundredths}$
8. $92 \text{ hundredths} \div 4 = \underline{\hspace{2cm}} \text{ hundredths}$
9. $15 \text{ tenths} \div 3 = \underline{\hspace{2cm}} \text{ tenths}$
10. $24 \text{ tenths} \div 6 = \underline{\hspace{2cm}} \text{ tenths}$
11. $56 \text{ hundredths} \div 8 = \underline{\hspace{2cm}} \text{ hundredths}$
12. $70 \text{ hundredths} \div 5 = \underline{\hspace{2cm}} \text{ hundredths}$
13. $81 \text{ hundredths} \div 9 = \underline{\hspace{2cm}} \text{ hundredths}$

Divide 0.42 by 6. Fill in the blanks.

Example

$$\begin{array}{r}
 \begin{array}{|c|c|} \hline 0 & 4 \\ \hline \end{array} \\
 6 \overline{) 2.4} \\
 \begin{array}{|c|} \hline 0 \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|} \hline 2 & 4 \\ \hline \end{array} \\
 \begin{array}{|c|c|} \hline 2 & 4 \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|} \hline 0 \\ \hline \end{array} \\
 \hline
 \end{array}$$



Divide 4.6 by 2. Fill in the blanks.

14.

$$\begin{array}{r}
 \begin{array}{|c|} \hline \square \\ \hline \end{array} \\
 2 \overline{) 4.6} \\
 \begin{array}{|c|} \hline \square \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} \\
 2 \overline{) 4.6} \\
 \begin{array}{|c|} \hline \square \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} \\
 \begin{array}{|c|c|} \hline & \square \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|} \hline \square \\ \hline \end{array} \\
 \hline
 \end{array}$$

Divide the ones by 2.

4 ones \div 2 = _____ ones

Divide the tenths by 2.

6 tenths \div 2 = _____ tenths

So, $4.6 \div 2 =$ _____.

Divide.

Example

$$\begin{array}{r}
 \begin{array}{cc} \boxed{3} & \boxed{2} \\ \hline \end{array} \\
 2 \overline{) 6 . 4} \\
 \begin{array}{r}
 \boxed{6} \\
 \hline
 \boxed{0} \quad \boxed{4} \\
 \phantom{\boxed{0}} \quad \boxed{4} \\
 \phantom{\boxed{0}} \quad \boxed{0}
 \end{array}
 \end{array}$$

17.

$$\begin{array}{r}
 \begin{array}{cc} \square & \square \\ \hline \end{array} \\
 3 \overline{) 3 . 9} \\
 \begin{array}{r}
 \square \\
 \hline
 \square \quad \square \\
 \quad \square \\
 \quad \square
 \end{array}
 \end{array}$$

18.

$$\begin{array}{r}
 \begin{array}{cc} \square & \square \\ \hline \end{array} \\
 3 \overline{) 2 . 4} \\
 \begin{array}{r}
 \square \\
 \hline
 \square \quad \square \\
 \quad \square \\
 \quad \square
 \end{array}
 \end{array}$$

19.

$$\begin{array}{r}
 \begin{array}{cc} \square & \square \\ \hline \end{array} \\
 6 \overline{) 5 . 4} \\
 \begin{array}{r}
 \square \\
 \hline
 \square \quad \square \\
 \quad \square \\
 \quad \square
 \end{array}
 \end{array}$$

20.

$$\begin{array}{r}
 \begin{array}{cc} \square & \square \\ \hline \end{array} \\
 7 \overline{) 0 . 7} \\
 \begin{array}{r}
 \square \\
 \hline
 \square \quad \square \\
 \quad \square \\
 \quad \square
 \end{array}
 \end{array}$$

21.

$$\begin{array}{r}
 \begin{array}{cc} \square & \square \\ \hline \end{array} \\
 8 \overline{) 3 . 2} \\
 \begin{array}{r}
 \square \\
 \hline
 \square \quad \square \\
 \quad \square \\
 \quad \square
 \end{array}
 \end{array}$$

Name: _____

Date: _____

Regroup. Then divide.

Example

$$4.29 \div 3$$

$$4 \text{ ones} = \underline{3} \text{ ones and } 10 \text{ tenths}$$

$$4 \text{ ones and } 2 \text{ tenths} = 3 \text{ ones and } 10 \text{ tenths} + 2 \text{ tenths}$$

$$= 3 \text{ ones and } \underline{12} \text{ tenths}$$

$$3 \text{ ones and } \underline{12} \text{ tenths } 9 \text{ hundredths} \div 3$$

$$= \underline{1} \text{ one and } \underline{4} \text{ tenths } \underline{3} \text{ hundredths}$$

22. $3.68 \div 2$

$$3 \text{ ones} = \underline{\hspace{2cm}} \text{ ones and } 10 \text{ tenths}$$

$$3 \text{ ones and } 6 \text{ tenths} = \underline{\hspace{2cm}} \text{ ones and } 10 \text{ tenths} + \underline{\hspace{2cm}} \text{ tenths}$$

$$= \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenths}$$

$$2 \text{ ones and } \underline{\hspace{2cm}} \text{ tenths } \underline{\hspace{2cm}} \text{ hundredths} \div 2$$

$$= \underline{\hspace{2cm}} \text{ one and } \underline{\hspace{2cm}} \text{ tenths } \underline{\hspace{2cm}} \text{ hundredths}$$

23. $6.54 \div 3$

$$5 \text{ tenths} = \underline{\hspace{2cm}} \text{ tenths } 20 \text{ hundredths}$$

$$5 \text{ tenths } 4 \text{ hundredths}$$

$$= \underline{\hspace{2cm}} \text{ tenths } 20 \text{ hundredths} + \underline{\hspace{2cm}} \text{ hundredths}$$

$$= \underline{\hspace{2cm}} \text{ tenths } \underline{\hspace{2cm}} \text{ hundredths}$$

$$6 \text{ ones and } \underline{\hspace{2cm}} \text{ tenths } \underline{\hspace{2cm}} \text{ hundredths} \div 3$$

$$= \underline{\hspace{2cm}} \text{ ones and } \underline{\hspace{2cm}} \text{ tenth } \underline{\hspace{2cm}} \text{ hundredths}$$

Name: _____

Date: _____

24. $4.64 \div 4$

6 tenths = _____ tenths _____ hundredths

6 tenths 4 hundredths

= _____ tenths _____ hundredths + _____ hundredths

= _____ tenths _____ hundredths

4 ones and _____ tenths _____ hundredths $\div 4$

= _____ one and _____ tenth _____ hundredths

25. $4.95 \div 3$

4 ones = _____ ones and _____ tenths

9 tenths 5 hundredths

= _____ tenths _____ hundredths + _____ hundredths

= _____ tenths _____ hundredths

3 ones and _____ tenths _____ hundredths $\div 3$

= _____ one and _____ tenths _____ hundredths

26. $6.55 \div 5$

6 ones = _____ ones and _____ tenths

6 ones and 5 tenths = _____ ones and _____ tenths + _____ tenths

= _____ ones and _____ tenths

5 ones and _____ tenths _____ hundredths $\div 5$

= _____ one and _____ tenths _____ hundredth

Name: _____

Date: _____

Divide 4.56 by 2. Fill in the blanks.

Example

$$\begin{array}{r} \textcircled{2} \\ 2 \overline{) 4.56} \\ \underline{\textcircled{4}} \\ \textcircled{0} \end{array}$$

Divide the ones by 2.

4 ones \div 2 = 2 ones

$$\begin{array}{r} \textcircled{2} \quad \textcircled{2} \\ 2 \overline{) 4.56} \\ \underline{\textcircled{4}} \\ \textcircled{0} \quad \textcircled{5} \\ \quad \quad \underline{\textcircled{4}} \\ \quad \quad \textcircled{1} \end{array}$$

Divide the tenths by 2.

5 tenths \div 2 = 2 tenths R 1 tenth
1 tenth = 10 hundredths

$$\begin{array}{r} \textcircled{2} \quad \textcircled{2} \\ 2 \overline{) 4.56} \\ \underline{\textcircled{4}} \\ \textcircled{0} \quad \textcircled{5} \\ \quad \quad \underline{\textcircled{4}} \\ \quad \quad \textcircled{1} \quad \textcircled{6} \end{array}$$

Add the hundredths.

10 hundredths + 6 hundredths
 = 16 hundredths

Name: _____

Date: _____

$$\begin{array}{r}
 \begin{array}{c} \boxed{2} \end{array} \begin{array}{c} \boxed{2} \end{array} \begin{array}{c} \boxed{8} \end{array} \\
 2 \overline{) 4.56} \\
 \underline{\begin{array}{c} \boxed{4} \end{array}} \\
 \begin{array}{c} \boxed{0} \end{array} \begin{array}{c} \boxed{5} \end{array} \\
 \underline{\begin{array}{c} \boxed{4} \end{array}} \\
 \begin{array}{c} \boxed{1} \end{array} \begin{array}{c} \boxed{6} \end{array} \\
 \underline{\begin{array}{c} \boxed{1} \end{array} \begin{array}{c} \boxed{6} \end{array}} \\
 \begin{array}{c} \boxed{0} \end{array}
 \end{array}$$

Divide the hundredths by 2.

16 hundredths ÷ 2

= 8 hundredths

So, 4.56 ÷ 2 = 2.28.

Divide 6.57 by 3. Fill in the blanks.

27.

$$\begin{array}{r}
 \boxed{} \\
 3 \overline{) 6.57} \\
 \underline{\boxed{}} \\
 \boxed{}
 \end{array}$$

Divide the ones by 3.

6 ones ÷ 3 = _____ ones

$$\begin{array}{r}
 \boxed{} \begin{array}{c} \boxed{} \end{array} \\
 3 \overline{) 6.57} \\
 \underline{\boxed{}} \\
 \boxed{} \begin{array}{c} \boxed{} \end{array} \\
 \underline{ \begin{array}{c} \boxed{} \end{array}} \\
 \begin{array}{c} \boxed{} \end{array} \\
 \underline{ \begin{array}{c} \boxed{} \end{array}} \\
 \begin{array}{c} \boxed{} \end{array}
 \end{array}$$

Divide the tenths by 3.

5 tenths ÷ 3 = _____ tenth R _____ tenths

_____ tenths = _____ hundredths

Name: _____

Date: _____

$$\begin{array}{r} \square \quad \square \\ 3 \overline{) 6 . 5 7} \\ \square \\ \hline \square \quad \square \\ \square \quad \square \\ \hline \square \quad \square \end{array}$$

Add the hundredths.

_____ hundredths + _____ hundredths

= _____ hundredths

$$\begin{array}{r} \square \quad \square \quad \square \\ 3 \overline{) 6 . 5 7} \\ \square \\ \hline \square \quad \square \\ \square \quad \square \\ \hline \square \quad \square \\ \square \quad \square \\ \hline \square \end{array}$$

Divide the hundredths by 3.

_____ hundredths \div 3

= _____ hundredths

So, $6.57 \div 3 =$ _____.

Name: _____

Date: _____

Divide.

28.

$$\begin{array}{r} \square \square \square \\ 4 \overline{) 8 . 7 2} \\ \underline{\square} \\ \square \square \\ \underline{\square \square} \\ \square \square \\ \underline{\square \square} \\ \square \square \\ \underline{\square \square} \\ \square \end{array}$$

29.

$$\begin{array}{r} \square \square \square \\ 6 \overline{) 6 . 4 2} \\ \underline{\square} \\ \square \square \\ \underline{\square \square} \\ \square \square \\ \underline{\square \square} \\ \square \square \\ \underline{\square \square} \\ \square \end{array}$$

Name: _____

Date: _____

Divide 5.48 by 2. Fill in the blanks.

30.

$$\begin{array}{r} \square \\ 2 \overline{) 5 . 4 8} \\ \square \\ \hline \square \end{array}$$

Divide the ones by 2.

$$5 \text{ ones} \div 2 = \text{---} \text{ ones R } \text{---} \text{ one}$$

$$\begin{array}{r} \square \\ 2 \overline{) 5 . 4 8} \\ \square \\ \hline \square \quad \square \end{array}$$

Regroup the remainder --- one.

$$\text{---} \text{ one} = \text{---} \text{ tenths}$$

Add the tenths.

$$\text{---} \text{ tenths} + \text{---} \text{ tenths} = \text{---} \text{ tenths}$$

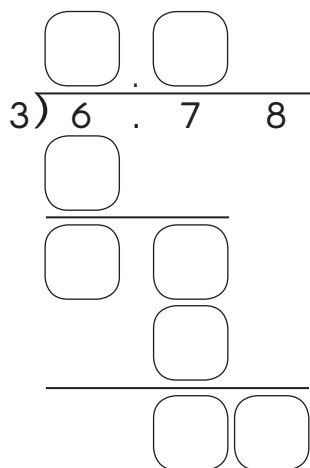
$$\begin{array}{r} \square \quad \square \\ 2 \overline{) 5 . 4 8} \\ \square \\ \hline \square \quad \square \\ \hline \square \quad \square \\ \hline \square \end{array}$$

Divide the tenths by 2.

$$\text{---} \text{ tenths} \div 2 = \text{---} \text{ tenths}$$

Name: _____

Date: _____



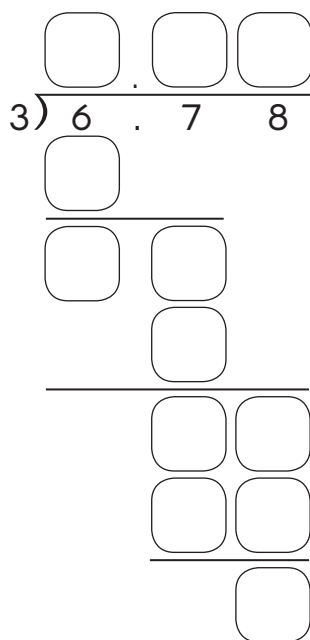
Regroup the remainder ____ tenth.

____ tenth = ____ hundredths

Add the hundredths.

____ hundredths + ____ hundredths

= ____ hundredths



Divide the hundredths by 3.

____ hundredths \div 3

= ____ hundredths

So, $6.78 \div 3 = \underline{\hspace{2cm}}$.

Name: _____

Date: _____

Divide.

32.

$$\begin{array}{r} \square . \square \square \\ 4 \overline{) 4 . 7 6} \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \end{array}$$

33.

$$\begin{array}{r} \square . \square \square \\ 3 \overline{) 9 . 8 7} \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \end{array}$$

34.

$$\begin{array}{r} \square . \square \square \\ 2 \overline{) 5 . 3 6} \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \end{array}$$

35.

$$\begin{array}{r} \square . \square \square \\ 3 \overline{) 7 . 5 9} \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \square \\ \underline{\square} \\ \square \end{array}$$

Name: _____

Date: _____

36.

$$\begin{array}{r}
 \square \square \square \\
 4 \overline{) 9.52} \\
 \underline{\square} \\
 \square \square \\
 \underline{\square \square} \\
 \square \square \\
 \underline{\square \square} \\
 \square
 \end{array}$$

37.

$$\begin{array}{r}
 \square \square \square \\
 6 \overline{) 8.46} \\
 \underline{\square} \\
 \square \square \\
 \underline{\square \square} \\
 \square \square \\
 \underline{\square \square} \\
 \square
 \end{array}$$

Divide.

38. $0.48 \div 2 = \underline{\hspace{2cm}}$

39. $0.36 \div 2 = \underline{\hspace{2cm}}$

40. $4.56 \div 2 = \underline{\hspace{2cm}}$

41. $1.58 \div 2 = \underline{\hspace{2cm}}$

42. $3.76 \div 2 = \underline{\hspace{2cm}}$

43. $0.96 \div 3 = \underline{\hspace{2cm}}$

44. $0.54 \div 3 = \underline{\hspace{2cm}}$

45. $6.93 \div 3 = \underline{\hspace{2cm}}$

46. $4.71 \div 3 = \underline{\hspace{2cm}}$

47. $5.28 \div 3 = \underline{\hspace{2cm}}$

48. $0.56 \div 4 = \underline{\hspace{2cm}}$

49. $0.75 \div 5 = \underline{\hspace{2cm}}$

50. $5.82 \div 6 = \underline{\hspace{2cm}}$

51. $8.61 \div 7 = \underline{\hspace{2cm}}$

52. $5.28 \div 8 = \underline{\hspace{2cm}}$

Name: _____

Date: _____

Divide. Round each quotient to the nearest tenth.

Example

$$\begin{array}{r} \begin{array}{|c|c|c|} \hline 1 & 6 & 6 \\ \hline \end{array} \\ 3 \overline{) \begin{array}{|c|c|c|} \hline 5 & 0 & 0 \\ \hline \end{array}} \\ \begin{array}{|c|} \hline 3 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 2 & 0 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 1 & 8 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 2 & 0 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 1 & 8 \\ \hline \end{array} \\ \begin{array}{|c|} \hline 2 \\ \hline \end{array} \end{array}$$

$5 \div 3$ is about 1.7.

53.

$$\begin{array}{r} \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array} \\ 3 \overline{) \begin{array}{|c|c|c|} \hline 2 & \square & \square \\ \hline \end{array}} \\ \begin{array}{|c|} \hline \square \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} \\ \begin{array}{|c|} \hline \square \\ \hline \end{array} \end{array}$$

$2 \div 3$ is about _____.

Name: _____

Date: _____

54.

7)	6	.

$6 \div 7$ is about _____.

55.

6)	7	.

$7 \div 6$ is about _____.

Name: _____

Date: _____

Divide. Round each quotient to the nearest hundredth.

56. $5 \div 9$

57. $8 \div 7$

58. $11 \div 3$

Name: _____

Date: _____

Worksheet 4 Dividing by Tens, Hundreds, or Thousands

Place the decimal point in the correct place in the quotient.

Example

$$7.26 \div 10 = 0.726$$

When you divide a number by 10, move the decimal point 1 decimal place to the left.



1. $1.37 \div 10 = 137$

2. $3.85 \div 10 = 385$

3. $36.2 \div 10 = 362$

4. $94.7 \div 10 = 947$

5. $645 \div 10 = 645$

6. $786 \div 10 = 786$

7. $0.9 \div 10 = 9$

8. $0.4 \div 10 = 4$

Complete.

9. $2.84 \div 10 = \underline{\hspace{2cm}}$

10. $463 \div 10 = \underline{\hspace{2cm}}$

11. $0.95 \div 10 = \underline{\hspace{2cm}}$

12. $72.6 \div 10 = \underline{\hspace{2cm}}$

Complete.

13. $57.8 \div \underline{\hspace{2cm}} = 5.78$

14. $4 \div \underline{\hspace{2cm}} = 0.4$

15. $894 \div \underline{\hspace{2cm}} = 89.4$

16. $0.26 \div \underline{\hspace{2cm}} = 0.026$

17. $\underline{\hspace{2cm}} \div 10 = 3.09$

18. $\underline{\hspace{2cm}} \div 10 = 70.4$

19. $\underline{\hspace{2cm}} \div 10 = 0.05$

20. $\underline{\hspace{2cm}} \div 10 = 0.458$

Name: _____

Date: _____

Complete.

21. $90 \div 30 = (90 \div \underline{\hspace{2cm}}) \div 10$

22. $140 \div 20 = (140 \div \underline{\hspace{2cm}}) \div 10$

23. $280 \div 40 = (\underline{\hspace{2cm}} \div 4) \div 10$

24. $420 \div 70 = (\underline{\hspace{2cm}} \div 7) \div 10$

Complete.

25. $60 \div 20 = (60 \div \underline{\hspace{2cm}}) \div 10$

$= \underline{\hspace{2cm}} \div 10$

$= \underline{\hspace{2cm}}$

26. $120 \div 30 = (120 \div \underline{\hspace{2cm}}) \div 10$

$= \underline{\hspace{2cm}} \div 10$

$= \underline{\hspace{2cm}}$

27. $360 \div 40 = (\underline{\hspace{2cm}} \div 4) \div 10$

$= \underline{\hspace{2cm}} \div 10$

$= \underline{\hspace{2cm}}$

28. $560 \div 80 = (\underline{\hspace{2cm}} \div 8) \div 10$

$= \underline{\hspace{2cm}} \div 10$

$= \underline{\hspace{2cm}}$

Name: _____

Date: _____

29. $16 \div 80 = (\text{_____} \div 8) \div 10$
 $= \text{_____} \div 10$
 $= \text{_____}$

30. $21 \div 70 = (\text{_____} \div 7) \div 10$
 $= \text{_____} \div 10$
 $= \text{_____}$

31. $0.9 \div 30 = (\text{_____} \div 3) \div 10$
 $= \text{_____} \div 10$
 $= \text{_____}$

32. $0.15 \div 50 = (\text{_____} \div 5) \div 10$
 $= \text{_____} \div 10$
 $= \text{_____}$

Divide.

33. $1.4 \div 70 = \text{_____}$

34. $8 \div 40 = \text{_____}$

35. $9 \div 30 = \text{_____}$

36. $0.75 \div 50 = \text{_____}$

37. $0.42 \div 70 = \text{_____}$

Name: _____

Date: _____

Place the decimal point in the correct place in the quotient.

Example

$$61.5 \div 100 = 0.615$$

When you divide a number by 100, move the decimal point 2 decimal places to the left.



38. $23.8 \div 100 = 238$

39. $47.3 \div 100 = 473$

40. $37.5 \div 100 = 375$

41. $98.4 \div 100 = 984$

42. $5.9 \div 100 = 59$

43. $2.7 \div 100 = 27$

Place the decimal point in the correct place in the quotient.

Example

$$715 \div 1,000 = 0.715$$

When you divide a number by 1,000, move the decimal point 3 decimal places to the left.



44. $147 \div 1,000 = 147$

45. $258 \div 1,000 = 258$

46. $69 \div 1,000 = 69$

47. $38 \div 1,000 = 38$

48. $1,234 \div 1,000 = 1234$

49. $6,101 \div 1,000 = 6101$

Name: _____

Date: _____

Complete.

50. $36.9 \div \underline{\hspace{2cm}} = 0.369$

51. $4 \div \underline{\hspace{2cm}} = 0.004$

52. $78 \div \underline{\hspace{2cm}} = 0.078$

53. $49.6 \div \underline{\hspace{2cm}} = 0.496$

54. $\underline{\hspace{2cm}} \div 100 = 4.08$

55. $\underline{\hspace{2cm}} \div 100 = 2.05$

56. $\underline{\hspace{2cm}} \div 1,000 = 0.007$

57. $\underline{\hspace{2cm}} \div 1,000 = 0.852$

Complete.

58. $800 \div 200 = (800 \div \underline{\hspace{2cm}}) \div 100$

59. $1,500 \div 300 = (1,500 \div \underline{\hspace{2cm}}) \div 100$

60. $40 \div 800 = (\underline{\hspace{2cm}} \div 8) \div 100$

61. $6 \div 200 = (\underline{\hspace{2cm}} \div 2) \div 100$

62. $0.9 \div 300 = (\underline{\hspace{2cm}} \div 3) \div 100$

63. $600 \div 2,000 = (600 \div \underline{\hspace{2cm}}) \div 1,000$

64. $1,800 \div 3,000 = (1,800 \div \underline{\hspace{2cm}}) \div 1,000$

65. $180 \div 9,000 = (\underline{\hspace{2cm}} \div 9) \div 1,000$

66. $8 \div 2,000 = (\underline{\hspace{2cm}} \div 2) \div 1,000$

67. $0.8 \div 4,000 = (\underline{\hspace{2cm}} \div 4) \div 1,000$

Name: _____

Date: _____

Complete.

68. $40 \div 200 =$ _____

69. $60 \div 3,000 =$ _____

70. $320 \div 800 =$ _____

71. $810 \div 9,000 =$ _____

72. $12 \div 3,000 =$ _____

73. $25 \div 5,000 =$ _____

74. $5 \div 100 =$ _____

75. $8 \div 400 =$ _____

76. $0.4 \div 200 =$ _____

77. $9 \div 600 =$ _____

78. $6 \div 2,000 =$ _____

79. $40 \div 5,000 =$ _____

80. $70 \div 1,000 =$ _____

81. $600 \div 4,000 =$ _____

82. $1,400 \div 500 =$ _____

83. $7,500 \div 1,500 =$ _____

Name: _____

Date: _____

Worksheet 5 Estimating Decimals

Round each decimal to the nearest whole number. Fill in the blanks.

Example

1.375 is about 1. 3 tenths is less than 5 tenths.
1.375 → 1

1. 12.459 is about _____. 4 tenths is _____ tenths.

12.459 → _____

2. 43.607 is about _____. 6 tenths is _____ tenths.

43.607 → _____

3. 28.910 is about _____. 9 tenths is _____ tenths.

28.910 → _____

Round each number to the nearest tenth. Fill in the blanks.

Example

2.483 is about 2.5. 8 hundredths is greater than 5 hundredths.
2.483 → 2.5

4. 6.341 is about _____. 4 hundredths is _____ hundredths.

6.341 → _____

5. 17.251 is about _____. 5 hundredths is _____ hundredths.

17.251 → _____

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Date: _____

6. 39.908 is about _____. 0 hundredths is _____ hundredths.
39.908 → _____

7. 18.472 is about _____. 7 hundredths is _____ hundredths.
18.472 → _____

Round each number to the nearest hundredth. Fill in the blanks.

Example

1.284 is about 1.28. 4 thousandths is less than 5 thousandths.
1.284 → 1.28

8. 16.016 is about _____. 6 thousandths is _____ thousandths.
16.016 → _____

9. 24.005 is about _____. 5 thousandths _____ thousandths.
24.005 → _____

10. 45.076 is about _____. 6 thousandths is _____ thousandths.
45.076 → _____

Round each decimal to the nearest whole number. Then estimate the sum.

Example

0.47 + 2.52 is about 3. 0.47 → 0; 2.52 → 3
0 + 3 = 3

11. 1.62 + 3.39 is about _____. 1.62 → _____; 3.39 → _____
_____ + _____ = _____

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Date: _____

12. $4.53 + 0.82$ is about _____. $4.53 \rightarrow$ _____; $0.82 \rightarrow$ _____
_____ + _____ = _____

13. $7.49 + 2.39$ is about _____. $7.49 \rightarrow$ _____; $2.39 \rightarrow$ _____
_____ + _____ = _____

14. $18.57 + 9.98$ is about _____. $18.57 \rightarrow$ _____; $9.98 \rightarrow$ _____
_____ + _____ = _____

15. $4.67 + 0.88$ is about _____. $4.67 \rightarrow$ _____; $0.88 \rightarrow$ _____
_____ + _____ = _____

Round each number to the nearest tenth. Then estimate the sum or difference.

Example

$0.51 + 2.48$ is about 3. $0.51 \rightarrow$ 0.5; $2.48 \rightarrow$ 2.5
0.5 + 2.5 = 3

16. $7.39 - 2.91$ is about _____. $7.39 \rightarrow$ _____; $2.91 \rightarrow$ _____
_____ - _____ = _____

17. $0.87 + 1.49$ is about _____.

18. $12.39 - 4.72$ is about _____.

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Date: _____

19. $18.59 - 9.66$ is about _____.

20. $21.85 + 0.75$ is about _____.

Round each decimal to the nearest whole number. Then estimate the product.

Example

2.47×4 is about 8.

$2.47 \rightarrow$ 2

2 $\times 4 =$ 8

21. 3.51×7 is about _____.

$3.51 \rightarrow$ _____

_____ \times _____ = _____

22. 12.07×8 is about _____.

23. 15.76×11 is about _____.

24. 18.32×12 is about _____.

25. 27.13×13 is about _____.

Name: _____

Date: _____

Round each decimal to the nearest tenth. Then estimate the product.

Example

$$3.45 \times 4 \text{ is about } \underline{14}$$

$$3.45 \rightarrow 3.5$$

$$\underline{3.5} \times 4 = \underline{14}$$

26. 4.54×6 is about _____.

$$4.54 \rightarrow \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

27. 14.27×7 is about _____.

28. 16.94×9 is about _____.

Round each decimal to the nearest whole number. Then estimate the quotient.

Example

$$12.49 \div 4 \text{ is about } \underline{3}$$

$$12.49 \rightarrow \underline{12}$$

$$\underline{12} \div 4 = \underline{3}$$

29. $31.52 \div 8$ is about _____.

$$31.52 \rightarrow \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Name: _____

Date: _____

30. $71.63 \div 9$ is about _____.

31. $62.55 \div 7$ is about _____.

Estimate. Round the decimals to the nearest tenth.

Example

$12.77 \div 4$ is about 3.2.

$12.77 \rightarrow$ 12.8

12.8 $\div 4 =$ 3.2

32. $37.24 \div 6$ is about _____.

$37.24 \rightarrow$ _____

_____ \div _____ = _____

33. $21.64 \div 8$ is about _____.

34. $51.09 \div 7$ is about _____.

Worksheet 6 Converting Metric Units

Find each product.

Example

$$0.6 \times 100 = 60.$$

When you multiply a decimal by 100, move the decimal point 2 decimal places to the right.



1. $0.08 \times 100 = \underline{\hspace{2cm}}$

2. $0.09 \times 100 = \underline{\hspace{2cm}}$

3. $0.015 \times 100 = \underline{\hspace{2cm}}$

4. $0.047 \times 100 = \underline{\hspace{2cm}}$

5. $7.9 \times 100 = \underline{\hspace{2cm}}$

6. $12.34 \times 100 = \underline{\hspace{2cm}}$

Convert meters to centimeters.

7. $0.4 \text{ m} = 0.4 \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ cm}$

8. $7.43 \text{ m} = 7.43 \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ cm}$

9. $1.585 \text{ m} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ cm}$

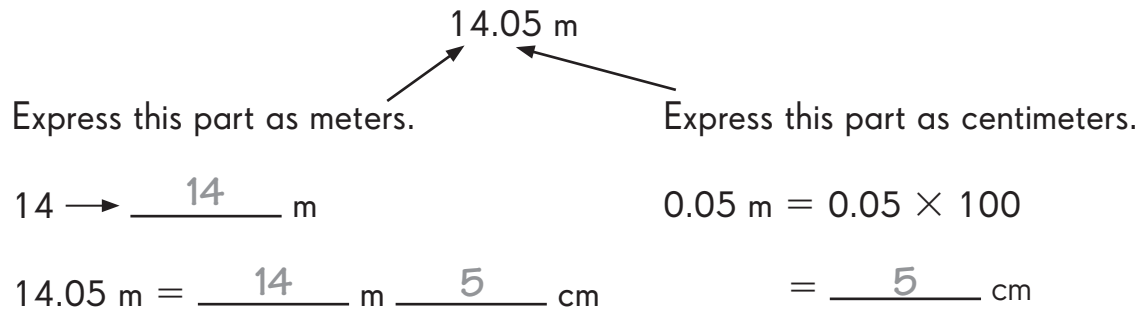
10. $500.75 \text{ m} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ cm}$

Name: _____

Date: _____

Convert meters to meters and centimeters.

Example



11. 15.09 m

$$0.09 \text{ m} = 0.09 \times \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}} \text{ cm}$$

$$15.09 \text{ m} = \underline{\hspace{2cm}} \text{ m } \underline{\hspace{2cm}} \text{ cm}$$

12. 224.8 m

$$0.8 \text{ m} = 0.8 \times \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}} \text{ cm}$$

$$224.8 \text{ m} = \underline{\hspace{2cm}} \text{ m } \underline{\hspace{2cm}} \text{ cm}$$

13. 35.09 m = _____ m _____ cm

14. 158.6 m = _____ m _____ cm

Name: _____

Date: _____

Find each product.

Example

$$0.75 \times 1,000 = 750.$$

When you multiply a decimal by 1,000, move the decimal point 3 decimal places to the right.



15. $0.04 \times 1,000 = \underline{\hspace{2cm}}$

16. $0.07 \times 1,000 = \underline{\hspace{2cm}}$

17. $0.026 \times 1,000 = \underline{\hspace{2cm}}$

18. $0.038 \times 1,000 = \underline{\hspace{2cm}}$

19. $6.2 \times 1,000 = \underline{\hspace{2cm}}$

20. $45.67 \times 1,000 = \underline{\hspace{2cm}}$

Convert kilometers to meters.

21. $0.6 \text{ km} = 0.6 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ m}$

22. $8.32 \text{ km} = 8.32 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ m}$

23. $1.493 \text{ km} = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ m}$

24. $300.92 \text{ km} = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ m}$

Name: _____

Date: _____

Convert kilograms to grams.

25. $7.04 \text{ kg} = 7.04 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ g}$

26. $25.8 \text{ kg} = 25.8 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ g}$

27. $9.05 \text{ kg} = 9.05 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ g}$

28. $14.2 \text{ kg} = 14.2 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ g}$

Convert liters to milliliters.

29. $5.08 \text{ L} = 5.08 \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ mL}$

30. $14.3 \text{ L} = 14.3 \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ mL}$

31. $3.07 \text{ L} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ mL}$

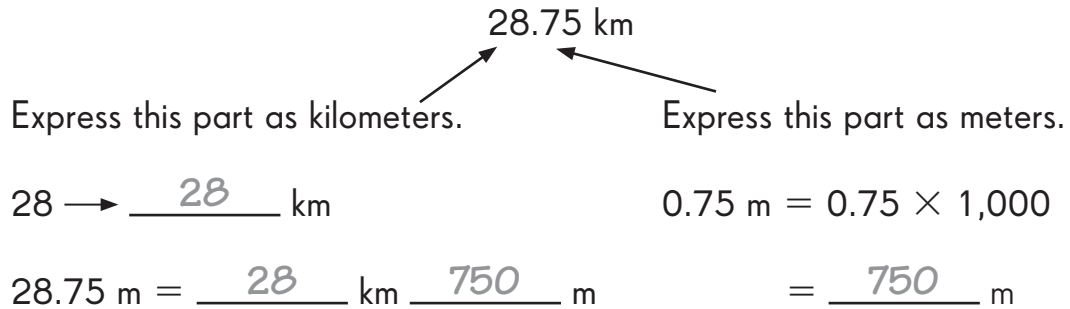
32. $26.4 \text{ L} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ mL}$

Name: _____

Date: _____

Convert kilometers to kilometers and meters.

Example



33. 46.07 km

$$0.07 \text{ km} = 0.07 \times \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}} \text{ m}$$

$$46.07 \text{ km} = \underline{\hspace{2cm}} \text{ km } \underline{\hspace{2cm}} \text{ m}$$

34. 168.9 km

$$\underline{\hspace{2cm}} \text{ km} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}} \text{ m}$$

$$168.9 \text{ km} = \underline{\hspace{2cm}} \text{ km } \underline{\hspace{2cm}} \text{ m}$$

35. 57.04 km = _____ km _____ m

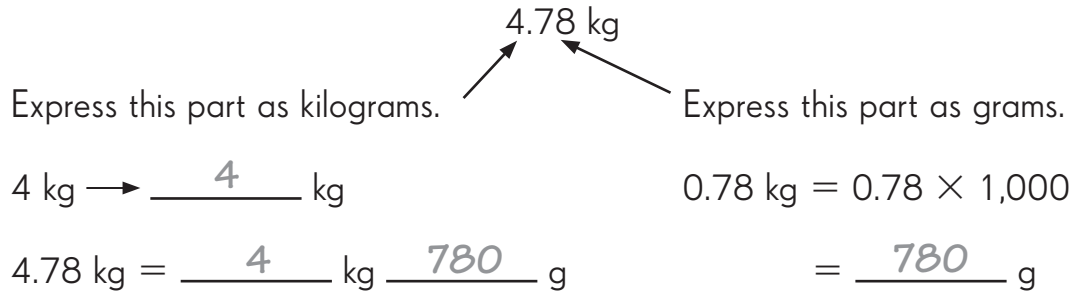
36. 248.5 km = _____ km _____ m

Name: _____

Date: _____

Convert kilograms to kilograms and grams.

Example



37. 2.05 kg

0.05 kg = 0.05 \times _____
= _____ g

2.05 kg = _____ kg _____ g

38. 12.9 kg

0.9 kg = _____ \times _____
= _____ g

12.9 kg = _____ kg _____ g

39. 9.03 kg = _____ kg _____ g

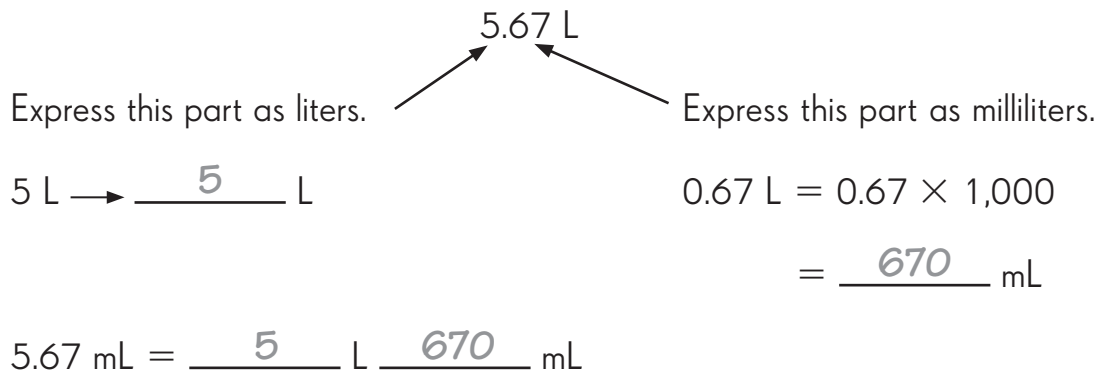
40. 21.6 kg = _____ kg _____ g

Name: _____

Date: _____

Convert liters to liters and milliliters.

Example



41. 8.03 L

$$0.03 \text{ L} = 0.03 \times \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} \text{ mL}$$

$$8.03 \text{ L} = \underline{\hspace{2cm}} \text{ L } \underline{\hspace{2cm}} \text{ mL}$$

42. 24.7 L

$$0.7 \text{ L} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} \text{ mL}$$

$$24.7 \text{ L} = \underline{\hspace{2cm}} \text{ L } \underline{\hspace{2cm}} \text{ mL}$$

43. 7.01 L = _____ L _____ mL

44. 15.8 L = _____ L _____ mL

Name: _____

Date: _____

Convert centimeters to meters.

Example

Convert 17.5 centimeters to meters.

$$100 \text{ cm} = 1 \text{ m}$$

$$\begin{aligned} 17.5 \text{ cm} &= 17.5 \div 100 \\ &= \underline{0.175} \text{ m} \end{aligned}$$

When you divide a number by 100, move the decimal point 2 decimal places to the left.



45. $25.4 \text{ cm} = 25.4 \div \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ m}$

46. $9.83 \text{ cm} = 9.83 \div \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ m}$

47. $32.5 \text{ cm} = 32.5 \div \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ m}$

48. $127.6 \text{ cm} = 127.6 \div \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ m}$

Name: _____

Date: _____

Convert meters and centimeters to meters.

Example

48 m 70 cm

100 cm = 1 m

70 cm = $70 \div 100$

= 0.7 m

48 m 70 cm = 48.7 m

When you divide a number by 100, move the decimal point 2 decimal places to the left.



49. 29 m 40 cm

40 cm = _____ \div _____

= _____ m

29 m 40 cm = _____ m

50. 15 m 80 cm

80 cm = _____ \div _____

= _____ m

15 m 80 cm = _____ m

51. 26 m 90 cm = _____ m

52. 145 m 30 cm = _____ m

Name: _____

Date: _____

Convert meters to kilometers.

Example

Convert 7,845 meters to kilometers.

$$1,000 \text{ m} = 1 \text{ km}$$

$$7,845 \text{ m} = 7,845 \div 1,000$$

$$= \underline{7.845} \text{ km}$$

When you divide a number by 1,000, move the decimal point 3 decimal places to the right.



53. $4,970 \text{ m} = 4,970 \div \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ km}$

54. $2,587 \text{ m} = \underline{\hspace{2cm}} \text{ km}$

55. $12,783 \text{ m} = \underline{\hspace{2cm}} \text{ km}$

Convert grams to kilograms.

Example

Convert 7,250 grams to kilograms.

$$1,000 \text{ g} = 1 \text{ kg}$$

$$7,250 \text{ g} = 7,250 \div 1,000$$

$$= \underline{7.250} \text{ kg}$$

When you divide a number by 1,000, move the decimal point 3 decimal places to the left.



Name: _____

Date: _____

56. $826 \text{ g} = 826 \div \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ kg}$

57. $4,458 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

58. $997 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

Convert milliliters to liters.

Example

Convert 1,275 milliliters to liters.

$$1,000 \text{ mL} = 1 \text{ L}$$

$$1,275 \text{ mL} = 1,275 \div 1,000$$
$$= \underline{1.275} \text{ L}$$

When you divide a number by 1,000, move the decimal point 3 decimal places to the left.



59. $773 \text{ mL} = 773 \div \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ L}$

60. $335 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

61. $4,785 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

Name: _____

Date: _____

Convert kilometers and meters to kilometers.

Example

$$7 \text{ km } 25 \text{ m}$$

$$1,000 \text{ m} = 1 \text{ km}$$

$$25 \text{ m} = 25 \div 1,000 \\ = \underline{0.025} \text{ km}$$

$$7 \text{ km } 25 \text{ m} = 7 \text{ km} + \underline{0.025} \text{ km} \\ = \underline{7.025} \text{ km}$$

When you divide a number by 1,000, move the decimal point 3 decimal places to the left.



62. 5 km 8 m
 $8 \text{ m} = 8 \div \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} \text{ km}$

$$5 \text{ km } 8 \text{ m} = 5 \text{ km} + \underline{\hspace{2cm}} \text{ km} \\ = \underline{\hspace{2cm}} \text{ km}$$

63. 32 km 74 m = $\underline{\hspace{2cm}}$ km

64. 66 km 9 m = $\underline{\hspace{2cm}}$ km

Name: _____

Date: _____

Convert kilograms and grams to kilograms.

Example

$$470 \text{ kg } 800 \text{ g}$$

$$800 \text{ g} = 800 \div 1,000$$

$$= \underline{0.8} \text{ kg}$$

$$470 \text{ kg } 800 \text{ g} = 470 \text{ kg} + \underline{0.8} \text{ kg}$$

$$= \underline{470.8} \text{ kg}$$

When you divide a number by 1,000, move the decimal point 3 decimal places to the left.



65. 75 kg 600 g

$$600 \text{ g} = 600 \div \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} \text{ kg}$$

$$75 \text{ kg } 600 \text{ g} = \underline{\hspace{2cm}} \text{ kg} + \underline{\hspace{2cm}} \text{ kg}$$

$$= \underline{\hspace{2cm}} \text{ kg}$$

66. 66 kg 90 g = $\underline{\hspace{2cm}}$ kg

67. 175 kg 175 g = $\underline{\hspace{2cm}}$ kg

Name: _____

Date: _____

Convert liters and milliliters to liters.

Example

$$55 \text{ L } 450 \text{ mL}$$

$$450 \text{ mL} = 450 \div 1,000$$

$$= \underline{0.45} \text{ L}$$

$$55 \text{ L } 450 \text{ mL} = 55 \text{ L} + \underline{0.45} \text{ L}$$

$$= \underline{55.45} \text{ L}$$

When you divide a number by 1,000, move the decimal point 3 decimal places to the left.



68. 124 L 900 mL

$$900 \text{ mL} = 900 \div \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} \text{ L}$$

$$124 \text{ L } 900 \text{ mL} = \underline{\hspace{2cm}} \text{ L} + \underline{\hspace{2cm}} \text{ L}$$

$$= \underline{\hspace{2cm}} \text{ L}$$

69. 78 L 45 mL = $\underline{\hspace{2cm}}$ L

70. 255 L 750 mL = $\underline{\hspace{2cm}}$ L

Name: _____

Date: _____

Solve. Show your work.

- 71.** James planted 2 trees 750 meters apart. He planted 12 trees in total.
- a.** Find the distance between the first and the twelfth tree in meters.

 - b.** Express the distance between them in kilometers.
- 72.** Trader A sells 5 bags of rice. Each bag weighs 45 kilograms 650 grams each. A truck can only carry 3,850 kilograms of goods. What is the maximum number of bags of rice that the truck can carry?

Name: _____

Date: _____

73. It requires 15 bottles of water to fill 1 container. One bottle contains 800 milliliters of water. Lisa buys 12 containers. Find the total volume of water that the containers carry. Express the answer in liters.

74. Gerald will need 2 meters 50 centimeters of cloth to make a shirt. What is the total length of cloth he needs to buy to make 22 shirts? Express the answer in meters.

Name: _____

Date: _____

Worksheet 7 Real-World Problems: Decimals

Solve. Show your work.

1. The length of a cracker is 3.2 centimeters. John places 4 crackers in a row. Estimate the total length of 1 row of crackers.

3.2 cm \rightarrow _____ cm

_____ \times _____ = _____ cm

The total length is about _____ centimeters.

2. Rose joins 6 pieces of ribbon. Each piece of ribbon is 7.57 centimeters long. Estimate the total length of the 6 pieces of ribbon.

The total length is about _____ centimeters.

Name: _____

Date: _____

- 3.** Kim has \$78.65. She distributes her money equally among her six children. Estimate the amount of money each child gets.

$$78.65 \rightarrow 6 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad 6 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$
$$6 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

_____ is nearer to 78.

Since $6 \times \underline{\hspace{2cm}} = 78$, each child gets about \$_____.

- 4.** Brad has a rope that is 65 meters long. He wants to cut the rope into 4 equal parts. Find the length of each cut part to the nearest meter.

Hint: Think of a number that when multiplied by 4 is close to 65.

$$65 \rightarrow 4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad 4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$
$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

_____ is nearer to 65.

Since $4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$, the length of each cut part of the rope is about _____ meters.

Name: _____

Date: _____

5. Jennifer has \$15 with her. She wants to buy the following items to bake a loaf of banana bread: a bag of flour for \$2.65, a carton of eggs for \$1.89, a bag of nuts for \$4.57, and a bunch of bananas for \$1.66. Does Jennifer have enough money to buy all four items?

6. The capacity of a pail is 2.17 liters. Ethan fills 9 of these pails with water in order to fill a larger bucket. Find the capacity of the larger bucket. Round your answer to the nearest liter.

Name: _____

Date: _____

7. Tom drove 15.67 miles from home to Paddle Middle School to get his brother, Alex. They stopped for a lemonade at a café that is 8.92 miles from home. What is the distance between the café and the school?
Round your answer to the nearest mile.

8. Shane is training for the National Vertical Marathon. His best time so far is 9.33 minutes. Shane wants to complete the marathon in 7.5 minutes. How much time must Shane shave off his best time to achieve his goal?
Round your answer to the nearest minute.

A vertical marathon is a competition where one has to try to run up many flights of stairs (usually in a tall building) and complete it in as short a time as possible.

