Multiply and Divide Decimals: Guided Practice

Name: _____

A. The whole-number work is done. Count the decimal places in each number. Then write the product.

	Problem	As whole numbers	Decimal places	Product
1.	**2.6 × 1.4**	26 × 14 = 364	☐ + ☐ = ☐	☐
2.	**0.8 × 0.9**	8 × 9 = 72	☐ + ☐ = ☐	☐
3.	**4.5 × 0.3**	45 × 3 = 135	☐ + ☐ = ☐	☐
4.	**0.37 × 0.6**	37 × 6 = 222	☐ + ☐ = ☐	☐

B. Now multiply the whole numbers yourself. Then count the places and write the product. If there are not enough digits, write zeros in front: 6 with 2 decimal places is 0.06.

	Problem	As whole numbers	Decimal places	Product
5.	**1.7 × 0.5**	☐ × ☐ = ☐	☐ places in all	☐
6.	**3.2 × 0.4**	☐ × ☐ = ☐	☐ places in all	☐
7.	**0.8 × 0.07**	☐ × ☐ = ☐	☐ places in all	☐
8.	**5.1 × 0.6**	☐ × ☐ = ☐	☐ places in all	☐

C. Put a point in the answer, straight above the point in the number. Then divide. Use the boxes for your work.

9. $4\overline{)8.5\ 2}$

10. $7\overline{)9.2\ 4}$

11. $6\overline{)5\ 3.4}$

12. $3\overline{)7.3\ 8}$

D. Multiply both numbers by 10 or by 100 to make the divisor a whole number. Then divide.

13. **5.4 ÷ 0.9 =** ☐ ÷ ☐ = ☐

14. **2.8 ÷ 0.4 =** ☐ ÷ ☐ = ☐

15. **0.36 ÷ 0.04 =** ☐ ÷ ☐ = ☐

16. **6 ÷ 0.5 =** ☐ ÷ ☐ = ☐

Remember: to multiply, count the decimal places in both numbers. To divide by a decimal, make the divisor a whole number first.

Multiply and Divide Decimals: Guided Practice Answer Key

A. The whole-number work is done. Count the decimal places in each number. Then write the product.

	Problem	As whole numbers	Decimal places	Product
1.	**2.6 × 1.4**	26 × 14 = 364	1 + 1 = 2	**3.64**
2.	**0.8 × 0.9**	8 × 9 = 72	1 + 1 = 2	**0.72**
3.	**4.5 × 0.3**	45 × 3 = 135	1 + 1 = 2	**1.35**
4.	**0.37 × 0.6**	37 × 6 = 222	2 + 1 = 3	**0.222**

B. Now multiply the whole numbers yourself. Then count the places and write the product. If there are not enough digits, write zeros in front: 6 with 2 decimal places is 0.06.

	Problem	As whole numbers	Decimal places	Product
5.	**1.7 × 0.5**	17 × 5 = 85	2 places in all	**0.85**
6.	**3.2 × 0.4**	32 × 4 = 128	2 places in all	**1.28**
7.	**0.8 × 0.07**	8 × 7 = 56	3 places in all	**0.056**
8.	**5.1 × 0.6**	51 × 6 = 306	2 places in all	**3.06**

C. Put a point in the answer, straight above the point in the number. Then divide. Use the boxes for your work.

9. $4\overline{)8.52}$ → 2.13; −8; 5; −4; 12; −12; 0

10. $7\overline{)9.24}$ → 1.32; −7; 22; −21; 14; −14; 0

11. $6\overline{)53.4}$ → 8.9; −48; 54; −54; 0

12. $3\overline{)7.38}$ → 2.46; −6; 13; −12; 18; −18; 0

D. Multiply both numbers by 10 or by 100 to make the divisor a whole number. Then divide.

13. **5.4 ÷ 0.9 =** 54 ÷ 9 = 6

14. **2.8 ÷ 0.4 =** 28 ÷ 4 = 7

15. **0.36 ÷ 0.04 =** 36 ÷ 4 = 9

16. **6 ÷ 0.5 =** 60 ÷ 5 = 12

Remember: to multiply, count the decimal places in both numbers. To divide by a decimal, make the divisor a whole number first.