Greek Orthodox Patriarchate School
International - Hanina

Unit 1

Name: _____ **Lesson 1.1** **Grade 5A**

Date: _____ **Place Value** **Worksheet (4)**

Objective(s): Multiply and divide whole numbers and decimals by 10, 100 and 1000.

Whole Numbers

Multiplying by 10, 100, 1000

- Rule: Just add zeros at the end.
- Examples:
  - $5 \times 10 \rightarrow 50$ (add 1 zero)
  - $23 \times 100 \rightarrow 2300$ (add 2 zeros)
  - $7 \times 1000 \rightarrow 7000$ (add 3 zeros)

Dividing by 10, 100, 1000

- Rule: Imagine a decimal point at the end of the number and move it to the left as many places as the zeros.
- Examples:
  - $50 \div 10 \rightarrow 5$ (move 1 place left)
  - $2300 \div 100 \rightarrow 23$ (move 2 places left)
  - $7000 \div 1000 \rightarrow 7$ (move 3 places left)

Decimals

- **The same "move the decimal" idea works for decimals too!**

Multiplying by 10, 100, 1000

- Rule: Move the decimal point to the right.
- Examples:
  - $3.2 \times 10 \rightarrow 32$ (move 1 place right)
  - $0.47 \times 100 \rightarrow 47$ (move 2 places right)
  - $5.36 \times 1000 \rightarrow 5360$ (move 3 places right)

Dividing by 10, 100, 1000

- Rule: Move the decimal point to the left.
- Examples:
  - 32 ÷ 10 → 3.2 (move 1 place left)
  - 47 ÷ 100 → 0.47 (move 2 places left)
  - 5360 ÷ 1000 → 5.36 (move 3 places left)

If there's a **missing number** in a multiplication or division problem, you can usually **find it by "undoing" the operation** using the opposite operation. Let me explain clearly for both whole numbers and decimals.

1. Whole Numbers
Multiplication example:

- Problem: ___ × 10 = 50
- **How to find the missing number:** Divide the answer by the number you know.
  - 50 ÷ 10 = 5
- ✅ So the missing number is **5**

Division example:

- Problem: ___ ÷ 100 = 23
- **How to find the missing number:** Multiply the answer by the number you divided by:
  - 23 × 100 = 2300
- ✅ Missing number is **2300**

2. Decimals
Multiplication example:

- Problem: ___ × 100 = 4.8
- **Solution:** Divide by 100:
  - 4.8 ÷ 100 = 0.048
- ✅ Missing number is **0.048**

Multiply the whole numbers by 10, 100, or 1000

1. 7 × 10 = _____
2. 45 × 100 = _____
3. 6 × 1000 = _____
4. 123 × 10 = _____
5. 9 × 100 = _____

Divide the whole numbers by 10, 100, or 1000

1. 500 ÷ 10 = _____
2. 900 ÷ 100 = _____
3. 7000 ÷ 1000 = _____
4. 240 ÷ 10 = _____
5. 1200 ÷ 100 = _____

Multiply the decimals by 10, 100, or 1000

1. 3.4 × 10 = _____
2. 0.56 × 100 = _____
3. 2.78 × 1000 = _____
4. 0.09 × 10 = _____
5. 5.12 × 100 = _____

Divide the decimals by 10, 100, or 1000

1. 45 ÷ 10 = _____
2. 7.8 ÷ 100 = _____
3. 3.6 ÷ 10 = _____
4. 0.48 ÷ 100 = _____
5. 236 ÷ 1000 = _____

Find the missing numbers

1. ___ × 10 = 60
2. 450 ÷ ___ = 45
3. ___ × 100 = 7.5
4. 0.84 ÷ ___ = 0.084
5. ___ ÷ 1000 = 12

✅ **Tip for Students:**

- Multiply → move decimal **right** or add zeros
- Divide → move decimal **left**
- Missing numbers → do the **opposite operation**