

# SPARK Hybrid Education Center

## Mathematics & Geometry | Unit Test - September 2026 | Lower Level

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

Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Section 1: Multiple Choice (1 pt each)

1. What is  $\frac{3}{4} + \frac{1}{3}$ ?

- |                  |                    |
|------------------|--------------------|
| A) $\frac{4}{7}$ | B) $\frac{13}{12}$ |
| C) $\frac{1}{2}$ | D) $\frac{4}{12}$  |

2. Which fraction equals  $\frac{6}{8}$ ?

- |                  |                  |
|------------------|------------------|
| A) $\frac{2}{3}$ | B) $\frac{3}{4}$ |
| C) $\frac{5}{7}$ | D) $\frac{1}{2}$ |

3. What is  $\frac{5}{6} - \frac{1}{4}$ ?

- |                   |                    |
|-------------------|--------------------|
| A) $\frac{4}{2}$  | B) $\frac{7}{12}$  |
| C) $\frac{4}{10}$ | D) $\frac{11}{12}$ |

4. Multiply:  $\frac{2}{3} \times \frac{3}{5}$

- |                  |                   |
|------------------|-------------------|
| A) $\frac{5}{8}$ | B) $\frac{6}{15}$ |
| C) $\frac{2}{5}$ | D) $\frac{6}{8}$  |

5. Divide:  $\frac{4}{5} \div \frac{2}{3}$

- |                   |                    |
|-------------------|--------------------|
| A) $\frac{8}{15}$ | B) $\frac{6}{5}$   |
| C) $\frac{2}{5}$  | D) $\frac{12}{10}$ |

6. Write 0.75 as a fraction in lowest terms.

- |                    |                    |
|--------------------|--------------------|
| A) $\frac{75}{10}$ | B) $\frac{3}{4}$   |
| C) $\frac{7}{5}$   | D) $\frac{15}{20}$ |

7. Which decimal equals  $\frac{3}{8}$ ?

- |         |          |
|---------|----------|
| A) 0.38 | B) 0.375 |
| C) 0.83 | D) 0.3   |

8. Convert 45% to a decimal.

- |         |          |
|---------|----------|
| A) 4.5  | B) 450   |
| C) 0.45 | D) 0.045 |

9. Write 0.6 as a percent.

- |        |         |
|--------|---------|
| A) 6%  | B) 0.6% |
| C) 60% | D) 600% |

10. Which is greatest:  $\frac{3}{5}$ , 0.58, or 62%?

- |                  |          |
|------------------|----------|
| A) $\frac{3}{5}$ | B) 0.58  |
| C) 62%           | D) Equal |

### Section 2: Matching (1 pt each)

Match the fraction (Column A) to its decimal (Column B):

- |                       |         |
|-----------------------|---------|
| ___ 1. $\frac{1}{2}$  | A. 0.70 |
| ___ 2. $\frac{3}{5}$  | B. 0.25 |
| ___ 3. $\frac{1}{4}$  | C. 0.40 |
| ___ 4. $\frac{7}{10}$ | D. 0.50 |
| ___ 5. $\frac{2}{5}$  | E. 0.60 |

### Section 3: Show Your Work (3 pts each)

1. Add:  $\frac{5}{8} + \frac{1}{6}$  (Show common denominator steps)
2. Subtract:  $\frac{7}{9} - \frac{2}{3}$  (Show all steps)
3. Multiply:  $\frac{3}{4} \times \frac{8}{9}$  (Simplify fully)
4. Divide:  $\frac{5}{6} \div \frac{5}{8}$  (Use Keep-Change-Flip)
5. Convert  $\frac{7}{20}$  to a decimal AND a percent. Show work.

### Section 4: Word Problems (4 pts each)

1. Maria ran  $\frac{3}{4}$  mile Tuesday and  $\frac{5}{8}$  mile Wednesday.  
How far total? Show work.
2. A recipe needs  $\frac{2}{3}$  cup sugar. You make 1.5x the recipe.  
How much sugar? Show work.
3. A store has 240 items; 35% are on sale.  
Write 35% as fraction and decimal. How many on sale?

# TEACHER COPY -- ANSWER KEY

## Section 1 -- Multiple Choice

- 1-B
- 2-B
- 3-B
- 4-C
- 5-B
- 6-B
- 7-B
- 8-C
- 9-C
- 10-C

## Section 2 -- Matching

- 1-D (0.50)
- 2-E (0.60)
- 3-B (0.25)
- 4-A (0.70)
- 5-C (0.40)

## Section 3 -- Show Your Work

- 1.  $15/24 + 4/24 = 19/24$
- 2.  $7/9 - 6/9 = 1/9$
- 3.  $24/36 = 2/3$
- 4.  $5/6 \times 8/5 = 40/30 = 4/3 = 1 \frac{1}{3}$
- 5.  $7 / 20 = 0.35 = 35\%$

## Section 4 -- Word Problems

- 1.  $3/4 + 5/8 = 6/8 + 5/8 = 11/8 = 1 \frac{3}{8}$  miles
- 2.  $2/3 \times 3/2 = 1$  cup
- 3.  $35\% = 7/20 = 0.35$ ;  $240 \times 0.35 = 84$  items on sale