

5th Grade Mathematics

Comprehensive Assessment

Time: 90 minutes | Total Points: 100

Student Name: _____ Date: _____

■ Instructions:

- Show all work
- Calculator permitted
- Answer all questions

Question 1: Fractions (20 points)

1. Study the shaded fractions:



1/4



3/4

a) Add these fractions: $1/4 + 3/4 =$ _____

b) What is $1/2 + 1/8$? _____

c) Convert 0.75 to a fraction: _____

Question 2: Geometry - Area and Perimeter (25 points)

1. Calculate area and perimeter of the rectangle:

12 cm



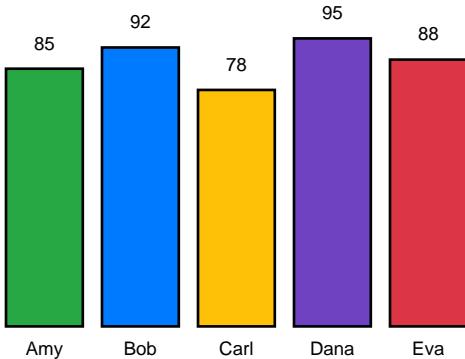
Area = _____ cm^2

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Perimeter = _____ cm

Question 3: Data Analysis and Graphs (20 points)

Study the bar chart showing test scores:



1. What was the highest score? _____
2. What was the average score? _____
3. How many students scored above 90? _____
4. Difference between highest and lowest? _____

Question 4: Multiplication Table (15 points)

Complete the multiplication table:

x	6	7	8	9
4	24	—	32	—
5	—	35	—	45
6	36	—	48	—

2. Solve: $156 \times 12 =$ _____
3. Calculate: $1,440 \div 15 =$ _____

Question 5: Word Problems (20 points)

1. Sarah has \$125. She buys 3 books for \$18 each and backpack for \$35.



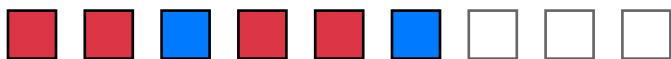
How much money left?

Answer: \$ _____ Page 2 of 4 | Generated by A+ AI | aplusai.org

2. Car travels 65 mph. Distance in 4.5 hours?

Question 6: Patterns and Sequences (15 points)

1. Study the pattern:



What colors come next? _____, _____, _____

2. Complete: 5, 10, 15, 20, __, __, __

3. What is the 15th term? _____

Question 7: Place Value (15 points)

1. Number 58,734 in place value blocks:



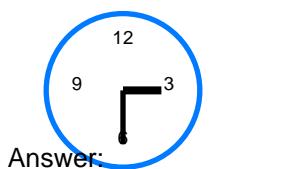
Write in expanded form: _____

2. Round 67,892 to nearest thousand: _____

3. Compare: a) 45,678 ____ 45,876 b) 0.75 ____ $\frac{3}{4}$

Question 8: Time and Measurement (10 points)

1. Clock shows 3:45. Time in 2 hours 30 minutes?



Answer: _____

2. Convert: 3.5 km = _____ meters

✓ Answer Key

Question 1: Fractions

- a) 1
- b) $\frac{5}{8}$
- c) $\frac{3}{4}$

Question 2: Geometry

- 1. Area = 96 cm^2 , Perimeter = 40 cm
- 2. Area = 30 in^2

Question 3: Data

- 1. 95
- 2. 87.6
- 3. 2 students
- 4. 17 points

Question 4: Multiplication

- 1. Table: 28, 40, 30, 40, 42, 54
- 2. 1,872
- 3. 96

Question 5: Word Problems

- 1. \$36
- 2. 292.5 miles
- 3. a) 216 ft^2
- b) \$240

Question 6: Patterns

- 1. Red, Red, Blue
- 2. 25, 30, 35
- 3. 75

Question 7: Place Value

- 1. $50,000 + 8,000 + 700 + 30 + 4$
- 2. 68,000
- 3. a) $<$
- b) $=$

Question 8: Time

- 1. 6:15
- 2. 3,500 meters