



# Pre-Algebra Final Exam

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This exam is comprehensive over the entire course and includes 12 questions. You have 60 minutes to complete the exam.

The exam is worth 100 points. The 8 multiple choice questions are worth 5 points each (40 points total) and the 4 free response questions are worth 15 points each (60 points total).

Mark your multiple choice answers on this cover page. For the free response questions, show your work and make sure to circle your final answer.

1. (5 pts)	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>	<div>E</div>
2. (5 pts)	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>	<div>E</div>
3. (5 pts)	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>	<div>E</div>
4. (5 pts)	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>	<div>E</div>
5. (5 pts)	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>	<div>E</div>
6. (5 pts)	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>	<div>E</div>
7. (5 pts)	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>	<div>E</div>
8. (5 pts)	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>	<div>E</div>



1. (5 pts) Which expression represents the multiplicative identity of  $a$ ?

**A**  $a \times (-1)$

**D**  $a + 0$

**B**  $a \times 0$

**E**  $a + 1$

**C**  $a \times 1$

2. (5 pts) Perform the indicated operations.

$$-2 - (-5) - 3$$

**A**  $-10$

**C**  $-5$

**E**  $1$

**B**  $-6$

**D**  $0$



3. (5 pts) Which number is not a multiple of 6?

**A**     3

**C**     18

**E**     30

**B**     12

**D**     24

4. (5 pts) Perform the indicated operation.

$$\frac{40}{(-8)}$$

**A**     -8

**C**     2

**E**     8

**B**     -5

**D**     5



**5. (5 pts)** What is the LCM (least common multiple) of 3 and 8?

**A** 16

**C** 48

**E** 96

**B** 24

**D** 72

**6. (5 pts)** Identify the composite number.

**A** 3

**C** 11

**E** 21

**B** 7

**D** 17



**7. (5 pts)** Which fraction represents 54 % ?

☐ A  $\frac{54}{10}$

☐ C  $\frac{27}{50}$

☐ E  $\frac{5}{9}$

☐ B  $\frac{27}{5}$

☐ D  $\frac{18}{75}$

**8. (5 pts)** Perform the indicated operation.

$$\frac{4}{3} \div \frac{4}{12}$$

☐ A  $\frac{1}{3}$

☐ C  $\frac{3}{4}$

☐ E 4

☐ B  $\frac{1}{4}$

☐ D  $\frac{4}{3}$



**9. (15 pts)** Find the sum of the mixed measures.

8 hours, 32 minutes, 20 seconds

9 hours, 46 minutes, 54 seconds

**10. (15 pts)** Perform the indicated operation.

$$-2\frac{3}{7} \div 3\frac{2}{7}$$



**11. (15 pts)** Find the difference and round to the nearest hundredth.

$$43.162 - 8.747$$

**12. (15 pts)** Simplify the expression.

$$3\sqrt{2} + \sqrt{8} - \sqrt{18}$$

