Exit Assessment

West Los Angeles College

Mathematics Division

Common Final Assessment

Math 110/112

Test number ____

Phones, notes, books, and calculators are NOT ALLOWED on this test.

There are twenty-five questions. You will have 1 hour and 15 minutes to complete the test. Record your answers on a Scantron form. Make sure that your name, the form, and the test number are on the scantron.

USE THE SCRATCH PAPER PROVIDED. DO NOT WRITE ON THE TEST. RETURN ALL SCRATCH PAPER ALONG WITH THE TEST AND THE SCANTRON.

1. Evaluate $-(-17) - |-13|$

   (a) -12 (b) -4 (c) 4 (d) 10

---

2. Compute $-(-6) + (-6) + 12 - 14$

   (a) -17 (b) -2 (c) 9 (d) 21

---

3. Simplify completely $40 - 12 \div (-4) \cdot 3$

   (a) -11 (b) 6 (c) 21 (d) 49

---

4. Evaluate $(2^2)(5^3)$

   (a) 60 (b) 150 (c) 500 (d) 100,000

---

5. A spider can walk 250 steps in 10 minutes. What is the unit rate?

   (a) $\frac{1}{25}\frac{\text{steps}}{\text{minute}}$ (b) $\frac{25 \text{ steps}}{\text{minute}}$ (c) $\frac{260 \text{ steps}}{\text{minute}}$ (d) $\frac{2500 \text{ steps}}{\text{minute}}$

---

6. Compute $13.07 - 15.3 + 0.823$

   (a) -1.053 (b) -0.593 (c) -1.407 (d) 2.987

---

7. Solve $5(x + 4) = 9x - 4$

   (a) -2 (b) $-\frac{3}{2}$ (c) 4 (d) 6

---

8. Which is the greatest number?:

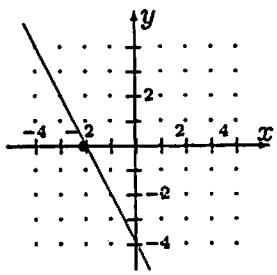
(a) $\frac{7}{4}$ (b) $\frac{4}{7}$ (c) $-\frac{4}{7}$ (d) $-\frac{7}{4}$

---

9. Convert $\frac{5}{16}$ to a percent.

(a) 5.16% (b) 7.33% (c) 31.25% (d) 62.5%

10.



Which point is on the line?

(a) $(0,-2)$, (b) $(2,0)$, (c) $(-2,0)$, (d) $(0,2)$

---

11. Julia incorrectly answered 8 questions out of 25 on her written driving test. What percent did she answer incorrectly?

(a) 8% (b) 26% (c) 32% (d) 42%

---

12. You spend 30% of your income on rent. Your job pays \$4,520 per month, how much of your monthly income is spent for housing each month?

(a) \$156 (b) \$1,356 (c) 1,500 (d) 4,470

---

13. A farmer purchases 58 ft of fencing to enclose a rectangular ~~meadow~~ plot. The width of the plot is 9 ft. Find the length of the plot.

(a) $9\frac{1}{3}$ ft (b) 20 ft (c) 40 ft (d) 49 ft

---

14. Subtract: $\left(\frac{-7}{9}\right) - \frac{1}{12} =$

(a) $-\frac{8}{21}$ (b) $-\frac{25}{26}$ (c) $-\frac{31}{36}$ (d) $\frac{8}{3}$

---

15. Divide:

$6\frac{3}{5} \div 7\frac{7}{10}$

(a) $\frac{36}{49}$ (b) $\frac{6}{7}$ (c) $1\frac{1}{6}$ (d) $5\frac{41}{50}$

---

16. $\frac{20}{0} =$ (a) 0 (b) -20 (c) 20 (d) Undefined

---

17. Add: $\frac{3}{4} + \frac{1}{10} + \frac{2}{5}$

(a) $\frac{6}{19}$ (b) $\frac{4}{5}$ (c) $1\frac{1}{5}$ (d) $1\frac{1}{4}$

---

18. Find the solution to $x - 9x = 96$

(a) -12 (b) 12 (c) 84 (d) 108

---

19. One bottle contains 0.591 L of soda. How much soda is in 54 of these bottles?

(a) 31.914 L (b) 43.778 L (c) 55.182 L (d) 91.370 L

---

20. Find the area of a square with each side 9 cm.

(a) 18 cm (b) 36 cm (c) 81 cm^2 (d) 729 cm^2

---

21. A $4\frac{1}{2}$ km relay race is run with each runner covering 0.75 of a km. How many runners are needed?

(a) 3 runners (b) 4 runners (c) 5 runners (d) 6 runners

---

22. Evaluate $-y^2 + 2y$ for $y = 5$:

(a) -15 (b) 0 (c) 20 (d) 35

---

23. A traveler bikes for 3 hours at the average speed of 31 miles per hour. How far has the traveler gone? (Distance=Speed·Time).

(a) $10\frac{1}{3}$ miles (b) 28 miles (c) 34 miles (d) 93 miles

---

24. Which of the following numbers is a solution to $2x(x-1) - 6x = 24$?:

(a) -2 (b) -1 (c) 0 (d) 1

---

25. Simplify $12(3+x) - 6(x-1)$

(a) $37 - 5x$ (b) $42 + 6x$ (c) $30 - 6x$ (d) $6x - 30$
