

Glendale Community College, AZ

Numerical Skills Review for ASSET Placement Exam

This exam is intended as an overall review and includes problems similar to what you may expect on the ASSET exam. However, it is NOT a sample exam.

ASSET Exam Info

1. You have 25 minutes to complete the multiple choice exam.
2. The Numerical Skills exam has 32 questions. All other exams have 25 questions.
3. No calculator allowed on the Numerical Skills exam. On all other exams you may use a scientific calculator. No programmable or graphing calculators are allowed. Most problems on the exam do not require a calculator and can be solved quickly with paper and pencil.
4. Be sure you start off with the right exam! If you don't know what exam to take, start off with the Elementary Algebra Exam.
5. The most important factor in successfully completing the exam is *time*. Don't spend too much time on one question. If you get stuck, move on, and then come back to it.

This review was created by the GCC ASSET Exam Committee: Walter A. Kehowski (Chair), Jason Bright, Anne Dudley, Miriam Pack. Please send any comments to

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1. Multiply 295×27

- (a) 6935 (b) 7935 (c) 7965 (d) 5235
-

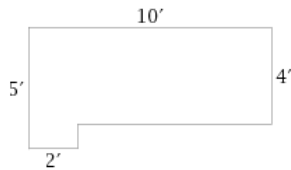
2. A family educational fund is being dissolved and the assets are to be equally distributed to each branch of the family. How much would each branch receive if the total assets are \$846,000 and there are nine branches of the family?

- (a) \$9,400 (b) \$94,000 (c) \$7833 (d) \$95,100
-

3. Find the average of 283, 517, and 703.

- (a) 751 (b) 482 (c) 501 (d) 1503
-

4. Find the perimeter.



- (a) 17' (b) 22' (c) 30' (d) 50'
-

5. Which of the following is the prime factorization of 270?

- (a) $2 \cdot 3^3 \cdot 5$ (b) $10 \cdot 27$ (c) $2 \cdot 5 \cdot 27$ (d) $3^2 \cdot 30$
-

6. Change $\frac{33}{7}$ to a mixed number.

- (a) $7\frac{5}{7}$ (b) $5\frac{4}{7}$ (c) $4\frac{3}{7}$ (d) $4\frac{5}{7}$
-

7. Change $7\frac{6}{11}$ to a improper fraction.

- (a) 7 (b) $\frac{6}{11}$ (c) $\frac{83}{11}$ (d) $\frac{11}{83}$
-

8. Compute $\frac{5}{7} \div \frac{5}{9} + \frac{1}{7}$

- (a) $\frac{3}{10}$ (b) $\frac{34}{63}$ (c) $3\frac{2}{9}$ (d) $1\frac{3}{7}$
-

9. Add. $42.316 + 35.7 + 227.142$

- (a) 305.158 (b) 269.815 (c) 294.158 (d) 289.815

10. Subtract. $19.27 - 14.539$

- (a) 4.74 (b) 4.731 (c) 33.809 (d) 280.16653
-

11. Write 0.00000349 in scientific notation.

- (a) 349×10^5 (b) 3.49×10^{-6} (c) 3.49×10^5 (d) 3.49×10^6
-

12. What number is 36% of 72?

- (a) 200 (b) 25.92 (c) 259.2 (d) 20
-

13. After a 6% pay increase, Lee's salary was \$12,084. What was Lee's salary before the increase?

- (a) \$12,809.04 (b) \$725.04 (c) \$11,400 (d) \$11,358.96
-

14. Astronauts aboard the space shuttle weigh in at 185 lbs, 133 lbs, and 162 lbs. What is the average weight of the astronauts?

- (a) 240 lbs (b) 168 lbs (c) 160 lbs (d) 174 lbs
-

15. Find the difference between $\frac{5}{9}$ and $\frac{5}{18}$.

- (a) $\frac{5}{9}$ (b) 0 (c) $\frac{5}{18}$ (d) $\frac{5}{6}$
-

16. Subtract and reduce: $\frac{5}{7} - \frac{3}{5}$.

- (a) $\frac{2}{2}$ (b) $\frac{4}{35}$ (c) $\frac{1}{4}$ (d) 4
-

17. Find the difference between 13 and $6\frac{4}{9}$.

- (a) $19\frac{4}{9}$ (b) $6\frac{5}{9}$ (c) $7\frac{4}{7}$ (d) $2\frac{1}{58}$
-

18. Multiply 6.38 and 0.542.

- (a) 5.838 (b) 3.45796 (c) 6.922 (d) 345.769
-

19. Add. $\frac{6}{7} + \left(-\frac{1}{3}\right)$.

- (a) $\frac{5}{4}$ (b) $\frac{11}{21}$ (c) $\frac{3}{7}$ (d) $\frac{25}{21}$
-

20. What is the least common multiple of 4, 6, and 15?

- (a) 360 (b) 60 (c) 180 (d) 320

21. Susan spends 20% of her yearly salary on educational expenses. If she spends \$3,500 on educational expenses, what is her yearly salary?

- (a) \$1,750 (b) \$4,200 (c) \$17,500 (d) \$18,000
-

22. A large houseplant is regularly priced at \$8.40, but during a sale its price is \$2.10. By what percent was the price discounted?

- (a) 25% (b) 75% (c) 400% (d) 50%
-

23. Reduce to lowest terms. $\frac{63}{65} \cdot \frac{39}{18}$

- (a) $\frac{22}{15}$ (b) $\frac{10}{21}$ (c) $\frac{21}{10}$ (d) $\frac{42}{20}$
-

24. Subtract. $0.851 - 0.547$

- (a) 0.404 (b) 0.304 (c) 0.303 (d) 0.330
-

25. Subtract. $5.563 - 2.892$

- (a) 2.617 (b) 1.617 (c) 1.671 (d) 2.671
-

26. A local map has a scale in which $\frac{3}{4}$ inch represents 60 miles. How many miles are there between two houses if on the map their distance is 2 inches?

- (a) 90 miles (b) 120 miles (c) 150 miles (d) 160 miles
-

27. On his math test Brian answered 42 out of 50 questions correctly. At the same rate, how many would he answer correctly if there were 75 questions?

- (a) 63 (b) 67 (c) 84 (d) 72
-

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ANSWER KEY

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|-------|-------|-------|
| 1. c | 11. b | 21. c |
| 2. b | 12. b | 22. b |
| 3. c | 13. c | 23. c |
| 4. c | 14. c | 24. b |
| 5. a | 15. c | 25. d |
| 6. d | 16. b | 26. d |
| 7. c | 17. b | 27. a |
| 8. d | 18. b | |
| 9. a | 19. b | |
| 10. b | 20. b | |