

Advanced Arithmetic Practice Test

1. Which of the following fractions is equal to **0.375**?

- A. $\frac{3}{8}$ B. $\frac{3}{4}$ C. $\frac{1}{3}$ D. $\frac{5}{16}$
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2. A company has **245 employees**. If $\frac{3}{5}$ of them work full-time and **the rest part-time**, how many are part-time?

- A. 147 B. 98 C. 122 D. 83
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3. Evaluate:

$$\frac{3}{4} + \frac{5}{6} - \frac{1}{3}$$

- A. 1 B. $1\frac{1}{6}$ C. $1\frac{1}{4}$ D. $1\frac{1}{6}\frac{1}{6}$
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4. A recipe calls for **$2\frac{2}{3}$ cups of flour** for one cake. How much flour is needed for **$2\frac{1}{2}$ cakes**?

- A. $4\frac{1}{2}$ cups B. $6\frac{2}{3}$ cups C. $6\frac{1}{6}$ cups D. $7\frac{1}{3}$ cups
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5. When $1.25 \times 4.8 + 3.75 \div 0.5$ is evaluated, the result is:

- A. 15 B. 13.5 C. 20 D. 21
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6. Which of the following has the **greatest value**?

- A. 0.48 B. $\frac{3}{8}$ C. 49% D. $\frac{1}{2}$
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7. A student scored **80, 92, 85, and 93** on four quizzes. What is the **average**?

- A. 86 B. 87.5 C. 87 D. 88.5
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8. If a store marks up an item by **30%**, and then offers a **20% discount**, what is the **net percent change** from the original price?

- A. 10% increase B. 4% increase C. 4% decrease D. 16% increase
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9. Simplify:

$$0.8 \div 0.02$$

- A. 4 B. 16 C. 40 D. 400
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10. A tank holds **60 gallons** when full. It is $\frac{3}{4}$ full. Then **5 gallons** are used. What percent of the tank remains full?

- A. 70% B. 67.5% C. 66.7% D. 60%
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11. Which number is **between** $\frac{1}{3}$ and $\frac{1}{2}$?

- A. 0.35 B. 0.42 C. 0.55 D. 0.60
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12. If **18 is 25% of x**, what is x?

- A. 4.5 B. 36 C. 45 D. 72
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13. Find the **remainder** when **725** is divided by **8**.

- A. 1 B. 2 C. 5 D. 7
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14. Round **98.7654** to the **nearest tenth**.

- A. 98.7 B. 98.8 C. 98.76 D. 99
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15. A worker earns **\$18.75/hour** for 40 hours per week. If 25% of her pay is withheld for taxes, what is her **net weekly pay**?

- A. \$562.50 B. \$468.75 C. \$375 D. \$400
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16. Order the following from **least to greatest**:

0.2, $\frac{1}{4}$, $\frac{1}{5}$, 0.18

- A. 0.18, $\frac{1}{5}$, $\frac{1}{4}$, 0.2 B. 0.18, $\frac{1}{5}$, 0.2, $\frac{1}{4}$ C. $\frac{1}{5}$, 0.18, 0.2, $\frac{1}{4}$ D. 0.2, $\frac{1}{5}$, 0.18, $\frac{1}{4}$
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17. What is **60% of 45% of 200**?

- A. 27 B. 36 C. 40 D. 54
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18. If **a = 2.4** and **b = 1.8**, what is

$$\frac{a^2 - b^2}{a - b} ?$$

- A. 1.2 B. 3.0 C. 4.2 D. 6.0
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19. A carpenter has a 12-ft board and needs pieces **3 $\frac{3}{4}$ ft** long. How many full pieces can he cut?

- A. 3 B. 2 C. 4 D. 5
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20. A car's value decreases by **15%** each year. If it's worth **\$20,000** now, what will it be worth **after 2 years**?

- A. \$14,450 B. \$15,300 C. \$17,000 D. \$17,425
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Answer Key:

1. Answer: A ($\frac{3}{8}$)
2. Answer: B (98)
3. Answer: B ($\frac{11}{6}$)
4. Answer: B ($6\frac{2}{3}$ cups)
5. Answer: B (13.5)
6. Answer: B ($\frac{3}{8}$)
7. Answer: B (87.5)
8. Answer: B (4% increase)
9. Answer: C (40)
10. Answer: C (62.5%)
11. Answer: B (0.42)
12. Answer: D (72)
13. Answer: C (5)
14. Answer: B (98.8)
15. Answer: B (\$468.75)
16. Answer: B
17. Answer: D (54)
18. Answer: C (4.2)
19. Answer: A (3)
20. Answer: A (\$14,450)

Additional resources:

Top Resource List

1. [College Board \(Official ACCUPLACER site\)](#)
 - They offer **free practice tests and learning resources** for all sections of the ACCUPLACER.
 - For example: sample questions for Arithmetic, Reading, Writing, etc.
 - [They also have a web-based study app where students can practice in a format similar to the real test.](#)
 - *How to use:* Register for a free account, use sample tests to diagnose weak areas, and use the study app for interactive practice.
2. [Mometrix Test Preparation](#)
 - Free practice questions and tests for ACCUPLACER across subjects.
 - They also provide study guides and strategy help (how to pace, what to focus on).
 - *How to use:* Good for students who like “learn-then-test” style: review material, then take timed/untimed practice.