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Practice Questions

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1. A store marks up a wholesale price of \$40 by 25%. What is the final retail price?

- A. \$50.00
- B. \$55.00
- C. \$45.00
- D. \$48.00

2. On a number line, which integer is closest to -7.8 ?

- A. -7
- B. -9
- C. -8
- D. -6

3. A recipe calls for $2\frac{3}{4}$ cups of flour. If you want to make $1\frac{1}{2}$ times the recipe, how many cups of flour do you need?

- A. $3\frac{3}{4}$ cups
- B. 4 cups
- C. $4\frac{1}{2}$ cups
- D. $4\frac{1}{4}$ cups

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4. Which of the following is equivalent to 3^{-2} ?

- A. -9
- B. $\frac{1}{9}$
- C. -6
- D. $\frac{1}{6}$



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5. A car travels 180 miles on 6 gallons of fuel. At the same rate, how many gallons are needed for a 255-mile trip?

- A. 8.5 gallons
- B. 9.0 gallons
- C. 9.5 gallons
- D. 7.5 gallons

6. Solve for x : $4(x - 3) + 2x = 18$

- A. $x = 6$
- B. $x = 5$
- C. $x = 3$
- D. $x = 4$

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7. A bank account earns simple interest. After 3 years the account holds \$1,180, having started with \$1,000. What is the annual interest rate?

- A. 4%
- B. 6%
- C. 5%
- D. 8%

8. Point A is at $(-3, 4)$ and point B is at $(5, -2)$. What is the midpoint of segment AB?

- A. $(4, 3)$
- B. $(2, 1)$
- C. $(1, 2)$
- D. $(1, 1)$

9. Which value of x satisfies both inequalities: $3x - 7 < 2x + 5$ AND $x > -1$?

- A. $x = 13$
- B. $x = -2$
- C. $x = 0$
- D. $x = 12$

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10. A tank is 40% full and contains 120 liters. What is the tank's total capacity?

- A. 160 liters
- B. 300 liters
- C. 280 liters
- D. 480 liters

11. On a coordinate plane, line m passes through $(0, -1)$ and $(4, 3)$. What is the slope of any line parallel to m ?

- A. 1
- B. $1/2$
- C. 2
- D. -1

12. A contractor mixes sand and gravel in the ratio 3:5. If the total mixture weighs 480 kg, how many more kilograms of gravel than sand are in the mixture?

- A. 120 kg
- B. 90 kg
- C. 60 kg
- D. 180 kg

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13. Evaluate: $(-2)^2 - 4 \times 2^3 \div 8 + (-3)^2$

- A. 25
- B. 17
- C. 29
- D. 21

14. A laptop's price decreased by 15% and then the reduced price was further cut by 10%. What is the total percentage decrease from the original price?

- A. 24.5%
- B. 23.5%
- C. 25.0%
- D. 26.0%



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15. A line has the equation $3y - 6x = 12$. What is the x-intercept of this line?

- A. $(-2, 0)$
- B. $(0, -2)$
- C. $(0, 4)$
- D. $(2, 0)$

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16. A worker earns a \$12/hour base wage plus weekly commission. One week she worked 40 hours and earned \$680 total. The following week, at the same base and hours, she earned \$740. By how much did her weekly commission increase from the first week to the second?

- A. \$50
- B. \$60
- C. \$80
- D. \$100

17. A rectangular garden measures 14 feet long and 9 feet wide. What is the perimeter of the garden?

- A. 46 feet
- B. 92 feet
- C. 126 feet
- D. 23 feet

18. A bar chart shows monthly rainfall (in inches) for a city: January = 3, February = 2, March = 5, April = 4. What is the mean (average) monthly rainfall for these four months?

- A. 4 inches
- B. 5 inches
- C. 3.5 inches
- D. 3 inches

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19. A spinner has 8 equal sections numbered 1 through 8. What is the probability of landing on a number greater than 5?

- A. $\frac{5}{8}$
- B. $\frac{3}{8}$
- C. $\frac{1}{2}$
- D. $\frac{1}{8}$

20. A triangular sail has a base of 12 feet and a height of 7 feet. What is the area of the sail?

- A. 42 square feet
- B. 84 square feet
- C. 19 square feet
- D. 38 square feet

21. A ladder leans against a wall. The base of the ladder is 6 feet from the wall, and the ladder reaches 8 feet up the wall. How long is the ladder?

- A. 10 feet
- B. 7 feet
- C. 14 feet
- D. 12 feet

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22. A cylindrical water tank has a radius of 3 feet and a height of 10 feet. Using $\pi \approx 3.14$, what is the approximate volume of the tank?

- A. 282.6 cubic feet
- B. 94.2 cubic feet
- C. 376.8 cubic feet
- D. 188.4 cubic feet

23. The following data set shows the number of hours 7 students studied: 2, 4, 4, 5, 6, 7, 10. What is the median number of hours studied?

- A. 5 hours
- B. 4 hours
- C. 5.4 hours
- D. 6 hours



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24. A line graph shows a store's weekly sales: Week 1 = \$800, Week 2 = \$950, Week 3 = \$900, Week 4 = \$1,150. Between which two consecutive weeks did sales increase the most?

- A. Week 1 to Week 4
- B. Week 1 to Week 2
- C. Week 2 to Week 3
- D. Week 3 to Week 4

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25. A tile floor in an L-shaped room can be divided into two rectangles: one measuring 6 m × 4 m and another measuring 3 m × 2 m. If tiles cost \$5 per square meter, what is the total cost to tile the floor?

- A. \$165
- B. \$30
- C. \$150
- D. \$180

26. A bag contains 5 red marbles, 3 blue marbles, and 2 green marbles. If one marble is drawn at random, what is the probability that it is NOT red?

- A. $\frac{1}{2}$
- B. $\frac{3}{10}$
- C. $\frac{2}{10}$
- D. $\frac{5}{10}$

27. A rectangular box (rectangular prism) has a length of 8 cm, a width of 5 cm, and a height of 4 cm. What is the surface area of the box?

- A. 184 sq cm
- B. 104 sq cm
- C. 200 sq cm
- D. 160 sq cm

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28. A scatter plot of 10 data points shows the relationship between hours of exercise per week and resting heart rate (beats per minute). The trend line has a negative slope. Which conclusion is best supported by this data?

- A. People who exercise more tend to have a lower resting heart rate.
- B. Resting heart rate has no relationship to exercise.
- C. Exercise causes a lower resting heart rate in all people.
- D. People with low resting heart rates exercise exactly 5 hours per week.

29. A square piece of land has an area of 225 square meters. A fence is built around its entire perimeter. If fencing costs \$12 per meter, what is the total cost of the fence?

- A. \$540
- B. \$2,700
- C. \$720
- D. \$1,080

30. A right triangle has legs of length x and $(x + 7)$. Its hypotenuse is 13. What is the value of x ?

- A. 4
- B. 5
- C. 3
- D. 6



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Answer Key & Explanations

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1. A — \$50.00

A 25% markup on \$40 equals $\$40 \times 1.25 = \50.00 ; markup means multiplying the original price by $(1 + \text{rate})$.

2. C — -8

-7.8 lies between -8 and -7, and since $|-7.8 - (-8)| = 0.2$ while $|-7.8 - (-7)| = 0.8$, the nearest integer is -8.

3. C — 4■ cups

Converting to improper fractions: $(11/4) \times (3/2) = 33/8 = 4■$ cups; multiplying mixed numbers requires converting to improper fractions first.

4. B — 1/9

A negative exponent denotes the reciprocal of the base raised to the positive exponent: $3■^2 = 1/3^2 = 1/9$.

5. A — 8.5 gallons

The unit rate is $180 \div 6 = 30$ miles per gallon; dividing 255 by 30 gives 8.5 gallons, using the proportional relationship $\text{distance} = \text{rate} \times \text{gallons}$.

6. B — $x = 5$

Distributing gives $4x - 12 + 2x = 18$, so $6x = 30$, yielding $x = 5$; check: $4(5-3) + 2(5) = 8 + 10 = 18 \checkmark$.

7. B — 6%

Using $I = P \times r \times t$: $\$180 = \$1,000 \times r \times 3$, so $r = 180/3000 = 0.06 = 6\%$.

8. D — (1, 1)

The midpoint formula gives $((-3+5)/2, (4+(-2))/2) = (2/2, 2/2) = (1, 1)$.

9. C — $x = 0$

The first inequality simplifies to $x < 12$; combined with $x > -1$, the solution set is $-1 < x < 12$, so only $x = 0$ falls within that range.

10. B — 300 liters

If 40% of capacity C equals 120 liters, then $C = 120 \div 0.40 = 300$ liters, using the percent equation $\text{part} = \text{percent} \times \text{whole}$.

11. A — 1

Slope of $m = (3 - (-1)) / (4 - 0) = 4/4 = 1$; parallel lines have equal slopes, so any parallel line also has slope 1.

12. A — 120 kg

Sand = $(3/8) \times 480 = 180$ kg; gravel = $(5/8) \times 480 = 300$ kg; the difference is $300 - 180 = 120$ kg.

13. D — 21

Order of operations: $(-2)■ = 16$; $4 \times 2^3 \div 8 = 4 \times 8 \div 8 = 4$; $(-3)^2 = 9$; so $16 - 4 + 9 = 21$.



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**14. B — 23.5%**

The retained fraction is $0.85 \times 0.90 = 0.765$, representing a total decrease of $1 - 0.765 = 0.235 = 23.5\%$; successive percentage reductions multiply, not add.

15. A — (-2, 0)

The x-intercept occurs where $y = 0$: substituting gives $-6x = 12$, so $x = -2$; the x-intercept is $(-2, 0)$.

16. B — \$60

Base pay = $40 \times \$12 = \480 ; first commission = $\$680 - \$480 = \$200$; second commission = $\$740 - \$480 = \$260$; increase = $\$260 - \$200 = \$60$.

17. A — 46 feet

Perimeter of a rectangle = $2(\text{length} + \text{width}) = 2(14 + 9) = 2(23) = 46$ feet.

18. C — 3.5 inches

Mean = total \div number of months = $(3 + 2 + 5 + 4) \div 4 = 14 \div 4 = 3.5$ inches.

19. B — 3/8

Numbers greater than 5 are 6, 7, and 8 — that is 3 favorable outcomes out of 8 equal sections, giving a probability of $3/8$.

20. A — 42 square feet

Area of a triangle = $(1/2) \times \text{base} \times \text{height} = (1/2) \times 12 \times 7 = 42$ square feet.

21. A — 10 feet

Using the Pythagorean theorem: $c^2 = 6^2 + 8^2 = 36 + 64 = 100$, so $c = \sqrt{100} = 10$ feet.

22. A — 282.6 cubic feet

Volume of a cylinder = $\pi \times r^2 \times h = 3.14 \times 9 \times 10 = 282.6$ cubic feet.

23. A — 5 hours

When values are ordered, the median is the middle value; with 7 values the 4th value is the median, which is 5 hours.

24. D — Week 3 to Week 4

Week 3 to Week 4 shows an increase of \$250 (from \$900 to \$1,150), which is larger than the \$150 increase from Week 1 to Week 2 and the \$50 decrease from Week 2 to Week 3.

25. C — \$150

Total area = $(6 \times 4) + (3 \times 2) = 24 + 6 = 30$ square meters; cost = $30 \times \$5 = \150 . Wait — that is \$150, which is option A. Rechecking: $30 \times 5 = 150$, so the correct answer is \$150.

26. A — 1/2

Non-red marbles = $3 + 2 = 5$ out of 10 total, so probability = $5/10 = 1/2$.

27. A — 184 sq cm

Surface area = $2(lw + lh + wh) = 2(8 \times 5 + 8 \times 4 + 5 \times 4) = 2(40 + 32 + 20) = 2(92) = 184$ square centimeters.

28. A — People who exercise more tend to have a lower resting heart rate.

A negative slope on a scatter plot trend line indicates a negative correlation — as one variable increases the other tends to decrease — but correlation does not establish causation or apply to every individual.



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29. C — \$720

Side length = $\sqrt{225} = 15$ m; perimeter = $4 \times 15 = 60$ m; cost = $60 \times \$12 = \720 . That equals \$720, which is option B.

30. B — 5

Using the Pythagorean theorem: $x^2 + (x+7)^2 = 13^2$; $x^2 + x^2 + 14x + 49 = 169$; $2x^2 + 14x - 120 = 0$; $x^2 + 7x - 60 = 0$; factors as $(x+12)(x-5) = 0$; since x must be positive, $x = 5$.



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