

Pre-Algebra & Geometry

Word Problems Practice Worksheet · 20 Questions

Name: _____

Date: _____

Score: ____ / 20

Section A: Pre-Algebra

Q01

Memory: KEY: 'times' → multiply, 'more than' → add, variable = unknown

Tom has 3 times as many stickers as Sam. If Sam has x stickers and Tom has 24, which equation finds x ?

A) $x + 3 = 24$

B) $3x = 24$

C) $x - 3 = 24$

D) $x \div 3 = 24$

Q02

Memory: KEY: Consecutive integers → $n, n+1, n+2$ (each differs by 1)

The sum of two consecutive integers is 47. Which equation correctly represents this situation?

A) $n + n = 47$

B) $n + (n + 1) = 47$

C) $n + (n + 2) = 47$

D) $2n + 2 = 47$

Q03

Memory: KEY: Percent off → find discount first, then subtract from original price

A shirt costs \$40. It is on sale for 25% off. What is the sale price?

A) \$10

B) \$25

C) \$30

D) \$15

Q04

Memory: KEY: Rate \times Time = Distance. To find speed: Speed = Distance \div Time

A car travels 60 mph for 2.5 hours. A second car covers the same distance but takes 3 hours. What is the second car's speed?

A) 45 mph

B) 50 mph

C) 55 mph

D) 40 mph

Q05

Memory: KEY: PEMDAS — Parentheses, Exponents, Multiply/Divide, Add/Subtract (left to right)

Evaluate: $3 + 4 \times 2 - (5 - 3)$

- A) 10
B) 7
C) 11
D) 9

Q06

Memory: KEY: 'at least' $\rightarrow \geq$, 'at most' $\rightarrow \leq$, 'more than' $\rightarrow >$, 'less than' $\rightarrow <$

Maria wants to save at least \$200. She has \$75 and earns \$25/hour babysitting. Which inequality shows hours h needed?

- A) $75 + 25h > 200$
B) $75 + 25h \geq 200$
C) $25h = 200$
D) $25h - 75 \geq 200$

Q07

Memory: KEY: Proportion $\rightarrow a/b = c/d \rightarrow$ cross multiply: $ad = bc$

A recipe uses 3 cups of flour for every 2 cups of sugar. For 9 cups of flour, how many cups of sugar are needed?

- A) 4 cups
B) 5 cups
C) 6 cups
D) 7 cups

Q08

Memory: KEY: Absolute value $|x| =$ distance from zero, always ≥ 0

The temperature is -8°F in the morning and rises 15 degrees by afternoon. What is the afternoon temperature and the absolute change?

- A) 7°F ; change = 15
B) 7°F ; change = 7
C) -7°F ; change = 15
D) 23°F ; change = 15

Q09

Memory: KEY: Mean = total sum \div count. Target total = mean \times NEW number of tests

Jake scored 72, 85, 90, and 79 on four tests. What score on the 5th test gives him a mean of exactly 84?

- A) 94
B) 96
C) 98
D) 100

Q10

Memory: KEY: Simple Interest $\rightarrow I = P \times r \times t$ (r as decimal, t in years)

Lisa invests \$500 at 6% annual simple interest for 3 years. How much total interest does she earn?

- A) \$30
B) \$90
C) \$60
D) \$18
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