

Round 1, Question 1

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Evaluate $78/13$.

Round 1, Question 2

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

What is the sum of the first X positive integers?

Round 1, Question 3

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Amy traveled X miles in 7 minutes. How many miles could she travel in 9 minutes?

Round 1, Question 4

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

What is the surface area of a cube with volume X ?

Round 2, Question 1

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Courtney catches three fish per day. If each fish sells for ten dollars, how much money, in dollars, does she make from selling fish in a week?

Round 2, Question 2

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

How many factors does X have?

Round 2, Question 3

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

When I roll two X -sided die, what is the probability that they show the same number?

Round 2, Question 4

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

The ratio of pigs to goats in a pen is X . If there are a total of 20 animals, how many goats are there?

Round 3, Question 1

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Randy eats three times as fast as Terry. If Terry can eat a hotdog in twelve minutes, how many minutes does it take Randy to eat a hotdog?

Round 3, Question 2

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Kelly walks around a circular pool X times. If the circumference of the pool is 6 feet, how far did she walk?

Round 3, Question 3

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

A cake shaped like a rectangular prism has a base area of 4 and a volume of X . What is the height of the cake?

Round 3, Question 4

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Ben can buy a panda for X dollars and a dolphin for $2X$ dollars. If he bought two pandas and one dolphin, how much money did he spend?

Round 4, Question 1

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Solve for z : $4z - 2 = 3z + 8$

Round 4, Question 2

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Chloe has X dollars, and Harry has some number of dollars. If Chloe gives Harry 5 dollars, Harry will have four times as much money as Chloe. How much money did Harry have originally?

Round 4, Question 3

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

What is the length of the other leg of a right triangle with hypotenuse X and one leg with length 12?

Round 4, Question 4

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Martin eats X carrots every day. How many carrots does Martin eat in December?

Round 5, Question 1

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

What is the sum of the first 5 odd numbers?

Round 5, Question 2

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

There are X students in a class. In how many ways can I choose a class president and vice president?

Round 5, Question 3

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

There are X unit cubes. What is the side length of the greatest solid cube I could build using these unit cubes?

Round 5, Question 4

General Instructions: In all questions after Question 1 of each round, the capital letter X represents the answer to the previous question. Once you solve your question, write only a numerical answer on the answer sheet; do not include units.

Sarah is X years older than her younger sister. How many years old is she when she is three times her sister's age?