



Rounding to Meet a Constraint (Multiple Choice)

Grade 5

Name: _____

Round to estimate if limits are met. Choose best estimate.

Example: Budget \$100; items \$27.50, \$33.40, \$19.95, \$21.49 $\rightarrow 28+33+20+21 \approx 102 \rightarrow$ No – about \$102

- (1) A school is fundraising for a new library, with a goal of \$500. They received donations of \$125.75, \$189.20, and \$155.30. Rounding to the nearest dollar, will they meet their goal?
- (A) Yes – about \$470 (B) Yes – about \$460 (C) No – about \$510 (D) No – about \$500
- (2) A project needs to be completed within 4 hours. Three tasks take 78 minutes, 63 minutes, and 95 minutes. Rounding each task to the nearest 10 minutes, can the project be finished on time? (1 hour = 60 minutes)
- (A) No – about 250 minutes (B) Yes – about 230 minutes (C) No – about 260 minutes
- (D) Yes – about 240 minutes
- (3) A chemist needs to mix chemicals in a container with a 50-liter capacity. She plans to add 12.8 liters, 19.3 liters, and 15.6 liters. Rounding to the nearest whole liter, will the total amount exceed the container's capacity?
- (A) Yes – about 52 liters (B) No – about 48 liters (C) Yes – about 55 liters (D) No – about 45 liters



- (4) A delivery truck has a weight limit of 100 kg for a specific compartment. Packages weigh 24.7 kg, 31.2 kg, and 45.9 kg. Rounding to the nearest whole kilogram, will the total weight be under the limit?
- (A) Yes – about 95 kg (B) No – about 105 kg (C) No – about 102 kg (D) Yes – about 90 kg
- (5) A national park aims to limit its total visitor count to 1,000,000 people per year across three main entrances. Last year, the entrances recorded 345,678, 212,345, and 450,123 visitors. Rounding each count to the nearest ten thousand, did the park stay within its limit?
- (A) Yes – about 990,000 visitors (B) No – about 1,005,000 visitors (C) No – about 1,010,000 visitors
(D) Yes – about 1,000,000 visitors
- (6) An explorer plans a journey with three segments: 215.8 km, 340.2 km, and 138.5 km. If the total journey cannot exceed 700 km, rounding each segment to the nearest whole kilometer, will the explorer stay within the limit?
- (A) No – about 710 km (B) Yes – about 690 km (C) No – about 705 km (D) Yes – about 695 km
- (7) You have a 2 GB (2000 MB) USB drive. You want to transfer three files: 512 MB, 789 MB, and 654 MB. Rounding each file size to the nearest 10 MB, will all files fit on the drive?
- (A) No – about 2050 MB (B) Yes – about 1960 MB (C) No – about 2010 MB
(D) Yes – about 1950 MB



(8) A factory has a daily water usage limit of 1,500 gallons. Three main processes consume 485.5 gallons, 610.3 gallons, and 398.7 gallons. Rounding each usage to the nearest whole gallon, will the factory stay within its limit?

(A) Yes – about 1495 gallons (B) No – about 1510 gallons (C) Yes – about 1490 gallons

(D) No – about 1505 gallons

