



Rounding to Meet a Constraint (Multiple Choice)

Grade 4

Name: _____

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

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

- (1) You have a budget of \$200 for supplies. The items you want to buy cost \$48, \$63, and \$89. If you round each cost to the nearest ten dollars, can you afford all the items?

(A) Yes – about \$200 (B) No – about \$210 (C) Yes – about \$190 (D) No – about \$220

- (2) A scientist has a data limit of 1,500 MB for uploads. She needs to upload files that are 340 MB, 580 MB, 410 MB, and 270 MB. If she rounds each file size to the nearest hundred MB, will she exceed her limit?

(A) Yes – about 1,500 MB (B) Yes – about 1,400 MB (C) No – about 1,600 MB

(D) No – about 1,700 MB

- (3) An engineer has 8 hours to complete a project. He estimates tasks will take 2 hours 15 minutes, 3 hours 40 minutes, and 1 hour 55 minutes. If he rounds each task time to the nearest hour, can he finish on time?

(A) No – about 10 hours (B) Yes – about 8 hours (C) Yes – about 7 hours (D) No – about 9 hours



- (4) A delivery truck has a weight limit of 5,000 pounds. It needs to carry packages weighing 1,230 lb, 1,870 lb, 950 lb, and 1,020 lb. If each package weight is rounded to the nearest hundred pounds, will the truck be over its limit?
- (A) No – about 5,200 lb (B) No – about 5,100 lb (C) Yes – about 5,000 lb (D) Yes – about 4,900 lb
- (5) A stadium has a capacity of 50,000 people. Tickets sold for different sections are 12,450, 18,700, 9,100, and 10,250. If you round each number of tickets to the nearest thousand, is the stadium at capacity or under?
- (A) Yes – about 49,000 people (B) Yes – about 50,000 people (C) No – about 52,000 people
- (D) No – about 51,000 people
- (6) A school wants to raise \$5,000 for new equipment. They received donations of \$1,280, \$940, \$1,570, and \$1,190. If each donation is rounded to the nearest hundred dollars, did they meet their fundraising goal?
- (A) Yes – about \$5,000 (B) Yes – about \$4,900 (C) No – about \$5,200 (D) No – about \$5,100
- (7) A water tank has a capacity of 150 liters. For various tasks, 38 liters, 52 liters, 45 liters, and 27 liters of water are needed. If each amount is rounded to the nearest ten liters, is there enough water in the tank?
- (A) No – about 170 liters (B) Yes – about 150 liters (C) Yes – about 160 liters
- (D) No – about 180 liters



(8) A field trip bus can hold 120 students. Classes planning to attend have 32 students, 28 students, 41 students, and 25 students. If you round each class size to the nearest ten students, will all students fit on the bus?

- (A) Yes – about 120 students (B) No – about 140 students (C) No – about 130 students
(D) Yes – about 110 students

