



Error Analysis: Which Estimate Is Better? (Multiple Choice)

Grade 5

Name: _____

Choose the closest estimate to the exact value.

Example: $487 + 612 \rightarrow$ exact is 1,099. Which is closer? (A) 1,000 (B) 1,100 (C) 1,200 (D) 900 $\rightarrow$ 1,100 is 1 away, so (B)

(1) Which estimate is closer to 53×28 ?

(A) 1,000 (B) 1,500 (C) 1,800 (D) 1,250

(2) What is the best estimate for 12.4×7.9 ?

(A) 93 (B) 94 (C) 95 (D) 96

(3) Estimate 387×19 . Which answer is closest to the exact value?

(A) 7,800 (B) 8,000 (C) 7,600 (D) 4,000

(4) A city has 495,000 residents. If each resident uses about 3.2 liters of water for a specific task daily, which value is the closest estimate of the total water used?

(A) 2,000,000 liters (B) 1,485,000 liters (C) 1,500,000 liters (D) 1,470,000 liters

(5) $0.98 \times 103 \approx ?$ Which choice is nearest to the exact answer?

(A) 100 (B) 101 (C) 102 (D) 103

(6) Which estimate is closer to $1,987 \times 5.1$?

(A) 9,500 (B) 9,900 (C) 12,000 (D) 10,000

(7) The speed of light is approximately 299,792 kilometers per second. If a signal travels for 18.5 seconds, what is the best estimate of the distance covered?

(A) 5,400,000 km (B) 5,800,000 km (C) 5,700,000 km (D) 6,000,000 km



(8) Estimate 6.7×32.5 . Which answer is closest to the exact value?

(A) 208 (B) 209 (C) 210 (D) 211

(9) A factory produces 7,890 units per day. If it operates for 24 days in a month, which value is the closest estimate of the total units produced?

(A) 200,000 units (B) 160,000 units (C) 158,000 units (D) 197,500 units

(10) $1.05 \times 49.6 \approx ?$ Which choice is nearest to the exact answer?

(A) 47 (B) 48 (C) 49 (D) 50

