



## Error Analysis: Which Estimate Is Better? (Multiple Choice) - Set A

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  $53 \times 28$ ?

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

(2) What is the best estimate for  $12.4 \times 7.9$ ?

(A) 96 (B) 80 (C) 84 (D) 104

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

(A) 8,000 (B) 7,800 (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) 1,500,000 liters (B) 1,470,000 liters (C) 2,000,000 liters (D) 1,485,000 liters

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

(A) 100 (B) 103 (C) 90 (D) 110

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

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

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



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

(A) 210 (B) 231 (C) 180 (D) 245

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

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

(A) 50 (B) 49 (C) 55 (D) 40

