Rounding/checking

6 questions | 9 marks

Equivalent correct methods earn the corresponding marks.

1. Round 3,674 to the nearest ten. [1 mark]

The ones digit is 4, so the lower ten is nearer.

Answer: 3,670.

2. Round 6,450 to the nearest hundred. [1 mark]

It is halfway, so use the higher hundred.

Answer: 6,500.

3. Round 7,499 to the nearest thousand. [1 mark]

It is below the halfway point 7,500.

Answer: 7,000.

4. Estimate $386 + 512$ by rounding each number to the nearest hundred. [2 marks]

386 rounds to 400; 512 rounds to 500.

$400 + 500 = 900$.

Answer: 900.

5. Estimate $1{,}204 - 598$ to the nearest hundred, then find the exact difference. [2 marks]

$1{,}200 - 600 = 600$.

$1{,}204 - 600 + 2 = 606$.

Answer: Estimate 600; exact difference 606.

6. 2,341 and 2,349 both round to 2,300 to the nearest hundred. Does this mean they are equal? Explain. [2 marks]

$2{,}349 - 2{,}341 = 8$.

Rounding groups nearby values; it does not make them equal.

Answer: No. Their exact values differ by 8.