

ROUNDING

A ROUNDING

A.1 ROUNDING TO THE NEAREST TEN

Ex 1: Round the number 263 to the nearest ten.

$$263 \approx \boxed{260}$$

Answer:

- 263** Find the digit in the tens place: **6**
263 Look at the digit to the right: **3**
Since **3** is less than 5, round down: **6** stays the same.
260 Replace all digits to the right with zeros.

$$263 \approx 260$$

Ex 2: Round the number 389 to the nearest ten.

$$389 \approx \boxed{390}$$

Answer:

- 389** Find the digit in the tens place: **8**
389 Look at the digit to the right: **9**
Since **9** is greater than or equal to 5, round up: **8 + 1 = 9**
390 Replace all digits to the right with zeros.

$$389 \approx 390$$

Ex 3: Round the number 2342 to the nearest ten.

$$2342 \approx \boxed{2340}$$

Answer:

- 2342** Find the digit in the tens place: **4**
2342 Look at the digit to the right: **2**
Since **2** is less than 5, round down: **4** stays the same.
2340 Replace all digits to the right with zeros.

$$2342 \approx 2340$$

Ex 4: Round the number 6779 to the nearest ten.

$$6779 \approx \boxed{6780}$$

Answer:

- 6779** Find the digit in the tens place: **7**
6779 Look at the digit to the right: **9**
Since **9** is greater than or equal to 5, round up: **7 + 1 = 8**
6780 Replace all digits to the right with zeros.

$$6779 \approx 6780$$

A.2 ROUNDING TO THE NEAREST HUNDRED

Ex 5: Round the number 365 to the nearest hundred.

$$365 \approx \boxed{400}$$

Answer:

- 365** Find the digit in the hundreds place: **3**
365 Look at the digit to the right: **6**
Since **6** is greater than 5, round up by adding 1: **3 + 1 = 4**
400 Replace all digits to the right with zeros.

$$365 \approx 400$$

Ex 6: Round the number 2032 to the nearest hundred.

$$2032 \approx \boxed{2000}$$

Answer:

- 2032** Find the digit in the hundreds place: **0**
2032 Look at the digit to the right: **3**
Since **3** is less than 5, round down: **0** stays the same.
2000 Replace all digits to the right with zeros.

$$2032 \approx 2000$$

Ex 7: Round the number 35695 to the nearest hundred.

$$35695 \approx \boxed{35700}$$

Answer:

- 35695** Find the digit in the hundreds place: **6**
35695 Look at the digit to the right: **9**
Since **9** is greater than 5, add 1: **6 + 1 = 7**.
35700 Replace all digits to the right with zeros.

$$35695 \approx 35700$$

Ex 8: Round the number 40239 to the nearest hundred.

$$40239 \approx \boxed{40200}$$

Answer:

- 40239** Find the digit in the hundreds place: **2**
40239 Look at the digit to the right: **3**
Since **3** is less than 5, round down: **2** stays the same.
40200 Replace all digits to the right with zeros.

$$40239 \approx 40200$$

A.3 ROUNDING TO THE NEAREST THOUSAND

Ex 9: Round the number 23 100 to the nearest thousand.

$$23\,100 \approx \boxed{23\,000}$$

Answer:

23 100 Find the digit in the thousands place: 3

23 100 Look at the digit to the right: 1

Since 1 is less than 5, round down: 3 stays the same.

23 000 Replace all digits to the right with zeros.

$$23\,100 \approx 23\,000$$

Ex 10: Round the number 67 645 to the nearest thousand.

$$67\,645 \approx \boxed{68\,000}$$

Answer:

67 645 Find the digit in the thousands place: 7

67 645 Look at the digit to the right: 6

Since 6 is greater than or equal to 5, round up: $7 + 1 = 8$

68 000 Replace all digits to the right with zeros.

$$67\,645 \approx 68\,000$$

Ex 11: Round the number 9 200 to the nearest thousand.

$$9\,200 \approx \boxed{9\,000}$$

Answer:

9 200 Find the digit in the thousands place: 9

92 00 Look at the digit to the right: 2

Since 2 is less than 5, round down: 9 stays the same.

9 000 Replace all digits to the right with zeros.

$$9\,200 \approx 9\,000$$

Ex 12: Round the number 9 999 to the nearest thousand.

$$9\,999 \approx \boxed{10\,000}$$

Answer:

9 999 Find the digit in the thousands place: 9

99 99 Look at the digit to the right: 9

Since 9 is greater than or equal to 5, round up: $9 + 1 = 10$

10 000 Replace all digits to the right with zeros.

$$9\,999 \approx 10\,000$$