

(ID:2) 1. What integer is closest in value to 268.9100?

(ID:177) 2. Round to the nearest thousand: 1846.90921

(ID:178) 3. Round the product of 2.32 and 10.77 to the nearest tenth.

(ID:1240) 4. Round 348 to the nearest ten.

(ID:16) 5. $1000 - 656 =$

(ID:17) 6. $10000 - 7301 =$

(ID:18) 7. $100000 - 92739 =$

(ID:169) 8. $19.2 - 31.1$

(ID:399) 9. In a brain bowl, you start with 99 points. For each wrong answer, you lose 12 points. If you get 4 questions wrong, how many points do you have left?

(ID:902) 10. Calculate: $960 - 433$

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Answer Key

1. 269

2. 2000

3. 25

4. 350

5. 344

6. 2699

7. 7261

8. -11.9

9. 51

10. 527

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Solution to Problem 1

To find the integer closest to 268.9100:

Step 1: Compare distances to nearest integers.

The integer 269 is 0.0900 away from 268.9100:

$$|269 - 268.9100| = 0.0900$$

The integer 268 is 0.9100 away from 268.9100:

$$|268 - 268.9100| = 0.9100$$

Step 2: Determine the closest integer.

Since $0.0900 < 0.9100$, 269 is closer.

Step 3: Final Answer:

269

Solution to Problem 2

Round to the nearest thousand: 1846.90921

Step 1: Identify the rounding place

The thousand place is 1000.

Step 2: Apply rounding rules

Look at the digit to the right of the rounding place. If it's 5 or greater, round up; otherwise, round down.
For 1846.90921, rounding to the nearest thousand gives 2000.

Step 3: Final Answer

2000

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Solution to Problem 3

Round the product of 2.32 and 10.77 to the nearest tenth.

Step 1: Compute the product

Calculate the product:

$$2.32 \times 10.77 = 24.9864$$

Step 2: Round to the nearest tenth

The tenth place is 0.1.

For 24.9864, rounding to the nearest tenth gives 25.

Step 3: Final Answer

25

Solution to Problem 4

Step 1: Round to the Nearest Ten

Look at the digit in the tens place of 348.

The remainder is 8, which is ≥ 5 , so round up.

350

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Solution to Problem 5

$$1000 - 656 = ?$$

Step 1: Understand the clever subtraction method

When subtracting from a power of 10 (like 1000), use this trick:

Subtract each digit from 9, except the last non-zero digit which you subtract from 10.

Step 2: Apply the method

For 656 (written as 656):

- Hundreds digit: $9 - 6 = 3$

- Tens digit: $9 - 5 = 4$

- Units digit: $10 - 6 = 4$

Step 3: Combine the digits

The result is $344 = 344$.

Step 4: Verify

Check using standard subtraction:

$$1000 - 656 = 344$$

Step 5: Final Answer

344

Solution to Problem 6

$$10000 - 7301 = ?$$

Step 1: Understand the clever subtraction method

When subtracting from a power of 10 (like 10000), use this trick:

Subtract each digit from 9, except the last non-zero digit which you subtract from 10.

Step 2: Apply the method

For 7301 (written as 7301):

- Thousands digit: $9 - 7 = 2$
- Hundreds digit: $9 - 3 = 6$
- Tens digit: $9 - 0 = 9$
- Units digit (last non-zero): $10 - 1 = 9$

Step 3: Combine the digits

The result is $2699 = 2699$.

Step 4: Verify

Check using standard subtraction:

$$10000 - 7301 = 2699$$

Step 5: Final Answer

2699

Solution to Problem 7

$$100000 - 92739 = ?$$

Step 1: Understand the clever subtraction method

When subtracting from a power of 10 (like 100000), use this trick:

Subtract each digit from 9, except the last non-zero digit which you subtract from 10.

Step 2: Apply the method

For 92739 (written as 92739):

- Ten-thousands digit: $9 - 9 = 0$
- Thousands digit: $9 - 2 = 7$
- Hundreds digit: $9 - 7 = 2$
- Tens digit: $9 - 3 = 6$
- Units digit (last non-zero): $10 - 9 = 1$

Step 3: Combine the digits

The result is $07261 = 7261$.

Step 4: Verify

Check using standard subtraction:

$$100000 - 92739 = 7261$$

Step 5: Final Answer

7261

Solution to Problem 8

Find the difference of 19.2 and 31.1.

Step 1: Perform the operation

$$19.2 - 31.1 = -11.9$$

Step 2: Final Answer

The difference is

-11.9

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Solution to Problem 9

Starting with 99 points and losing 12 points for each of 4 wrong answers.

Step 1: Calculate total points lost

Points lost per wrong answer: 12

Number of wrong answers: 4

$$12 \cdot 4 = 48$$

Step 2: Subtract from starting score

Subtract the total points lost from the starting score:

$$99 - 48 = 51$$

Step 3: Final Answer

Therefore, you have 51 points remaining.

Solution to Problem 10

Step 1: Subtract the numbers

$$960 - 433 = 527$$

Step 2: Final Answer

527

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