

Problem Solving: Rounding and Estimating Assignment

Round the number to the nearest.....

1. **34,458**
Nearest thousand

2. **1,775**
Nearest hundred

3. **124**
Nearest ten

4. **0.234**
Nearest tenth

5. **23.567**
Nearest hundredth

6. **1.208**
Nearest hundredth

Round the number to the nearest..... (USE NUMBER LINE)

7. **567**
Nearest ten

8. **1.261**
Nearest tenth

9. **1,161**
Nearest hundred

Name: _____ Period: _____ Date: _____

Problem Solving: Rounding and Estimating Assignment

Estimate the answer using rounding method.

10. $334 + 4,567 =$

11. $56,889 - 45,987 =$

12. $2,353 * 38 =$

13. $6,432 \div 823 =$

Estimate the answer using front end estimation.

14. $3,674 + 567 =$

15. $989 - 189 =$

16. $9,999 * 99 =$

17. $99,891 \div 999 =$

Problem Solving: Rounding and Estimating Assignment

Estimate the answer using cluster estimation.

18. $824 + 817 + 799 + 802 =$

19. $41 * 42 * 39 * 38 =$

WORD PROBLEMS

20. John, Joe and Collin have been helping Grandma to do yard work during the summer. John has earned \$**117**, Joe has earned \$**172**, and Collin has earned \$**211**. How much have they earned approximately all together? (Round to nearest ten)
21. Michael travels **3,417m** to the park, then **683m** to the store. He then travels **1,745m** back to his house. Find the total distance traveled by rounding each number to the nearest ten.
22. A plane traveling at **883** kilometers per hour decreases its speed by **94** kilometers per hour. Estimate the speed of the plane after it has slowed down by rounding each number to the nearest ten.

Problem Solving: Rounding and Estimating Assignment

ANSWERS

Round the number to the nearest.....

1. 34,458
Nearest thousand

$$34, \boxed{4}58 \rightarrow 34,000$$

2. 1,775
Nearest hundred

$$1, \boxed{77}5 \rightarrow 1,800$$

3. 124
Nearest ten

$$12 \boxed{4} \rightarrow 120$$

4. 0.234
Nearest tenth

$$0. \boxed{23}4 \rightarrow 0.200$$

5. 23.567
Nearest hundredth

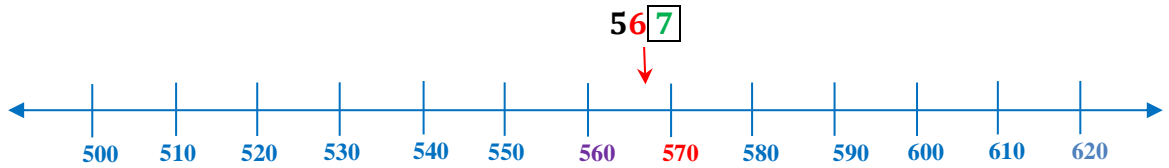
$$23.5 \boxed{67} \rightarrow 23.570$$

6. 1.208
Nearest hundredth

$$1.20 \boxed{8} \rightarrow 1.210$$

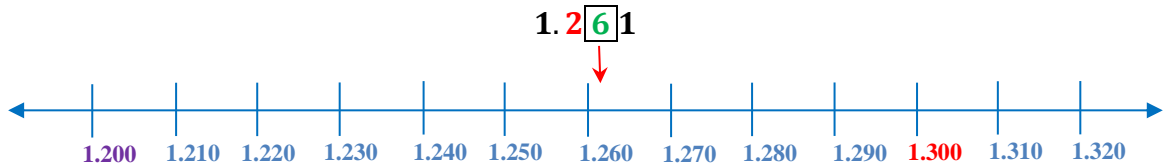
Round the number to the nearest.....(USE NUMBER LINE)

7. 567
Nearest ten



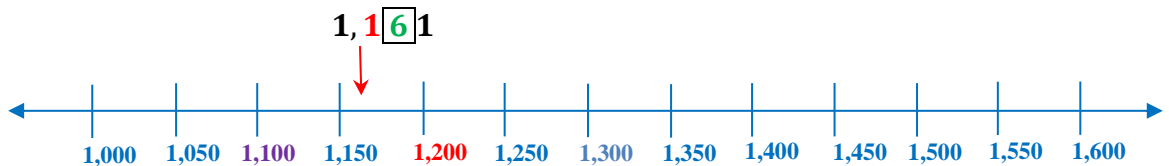
$$56 \boxed{7} \rightarrow 570$$

8. 1.261
Nearest tenth



$$1. \boxed{26}1 \rightarrow 1.300$$

9. 1,161
Nearest hundred



$$1, \boxed{16}1 \rightarrow 1,200$$

Problem Solving: Rounding and Estimating Assignment

Estimate the answer using rounding method.

10. $334 + 4,567 =$

$334 + 4,567 =$
Round to nearest ten

$33\boxed{4} \rightarrow 330$
 $4,5\boxed{67} \rightarrow 4,570$
 $330 + 4,570 = 4,900$

11. $56,889 - 45,987 =$

$56,889 - 45,987 =$
Round to nearest thousand

$56,\boxed{8}89 \rightarrow 57,000$
 $45,\boxed{9}87 \rightarrow 46,000$
 $57,000 - 46,000 = 11,000$

12. $2,353 * 38 =$

$2,353 * 38 =$
Round to nearest ten

$2,3\boxed{53} \rightarrow 2,350$
 $\boxed{38} \rightarrow 40$
 $2,350 * 40 = 94,000$

13. $6,432 \div 823 =$

$6,432 \div 823 =$
Round to nearest hundred

$6,\boxed{43}2 \rightarrow 6,400$
 $\boxed{823} \rightarrow 800$
 $6,400 \div 800 = 8$

Estimate the answer using front end estimation.

14. $3,674 + 567 =$

$3,674 + 567 =$

$3,\boxed{6}74 \rightarrow 4,000$
 $\boxed{567} \rightarrow 600$
 $4,000 + 600 = 4,600$

15. $989 - 189 =$

$989 - 189 =$

$9\boxed{8}9 \rightarrow 1,000$
 $\boxed{189} \rightarrow 200$
 $1,000 - 200 = 800$

16. $9,999 * 99 =$

$9,999 * 99 =$

$9,\boxed{9}99 \rightarrow 10,000$
 $\boxed{99} \rightarrow 100$
 $10,000 * 100 = 1,000,000$

17. $99,891 \div 999 =$

$99,891 \div 999 =$

$9\boxed{9},891 \rightarrow 100,000$
 $\boxed{999} \rightarrow 1,000$
 $100,000 \div 1,000 = 100$

Problem Solving: Rounding and Estimating Assignment

Estimate the answer using cluster estimation.

18. $824 + 817 + 799 + 802 =$

$824 + 817 + 799 + 802 =$

Notice that they all cluster around **800**.

$800 + 800 + 800 + 800 =$

$4 * 800 = \mathbf{3,200}$

Real answer:

$824 + 817 + 799 + 802 = \mathbf{3,244}$

19. $41 * 42 * 39 * 38 =$

$41 * 42 * 39 * 38 =$

Notice that they all cluster around **40**.

$40 * 40 * 40 * 40 = \mathbf{2,560,000}$

Real answer:

$41 * 42 * 39 * 38 = \mathbf{2,552,004}$

WORD PROBLEMS

20. John, Joe and Collin have been helping Grandma to do yard work during the summer. John has earned \$**117**, Joe has earned \$**172**, and Collin has earned \$**211**. How much have they earned approximately all together?(Round to nearest ten)

$\$11\boxed{7} \rightarrow \120

$\$120 + \$170 + \$210 = \500

$\$17\boxed{2} \rightarrow \170

$\$21\boxed{1} \rightarrow \210

They have earned approximately **\$ 500**.

21. Michael travels **3,417**m to the park, then **683**m to the store. He then travels **1,745** m back to his house. Find the total distance traveled by rounding each number to the nearest ten.

$3,41\boxed{7} \text{ m} \rightarrow 3,420 \text{ m}$

$3,420 \text{ m} + 680 \text{ m} + 1,750 \text{ m} = 5,850 \text{ m}$

$68\boxed{3} \text{ m} \rightarrow 680 \text{ m}$

$1,74\boxed{5} \text{ m} \rightarrow 1,750 \text{ m}$

The total distance traveled was approximately **5,850 m**

22. A plane traveling at **883** kilometers per hour decreases its speed by **94** kilometers per hour. Estimate the speed of the plane after it has slowed down by rounding each number to the nearest ten.

$88\boxed{3} \text{ kilometers per hour} \rightarrow 880 \text{ kilometers per hour}$

$9\boxed{4} \text{ kilometers per hour} \rightarrow 90 \text{ kilometers per hour}$

$880 \text{ kilometers per hour} - 90 \text{ kilometers per hour} = 790 \text{ kilometers per hour}$

The speed of the plane after it has slowed down - **790** kilometers per hour