



Year 4 Mathematics

Rounding & Estimating Workshop

Worksheet 5: Rounding Whole Numbers

Name: _____

Date: _____

Section 1: Fluency - Rounding to the Nearest 10

Use the "5 or more, round up" rule to round these numbers to the nearest 10.

1. Round 4,562 to the nearest 10.

Answer: _____

2. Round 3,847 to the nearest 10.

Answer: _____

3. Round 1,295 to the nearest 10.

Answer: _____

4. Round 5,673 to the nearest 10.

Answer: _____

5. Round 2,408 to the nearest 10.



Answer: _____

6. Round 7,234 to the nearest 10.

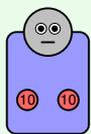
Answer: _____

7. Round 6,851 to the nearest 10.

Answer: _____

8. Round 9,126 to the nearest 10.

Answer: _____



Rounding Robot!

Why did the number 7 go to the gym?

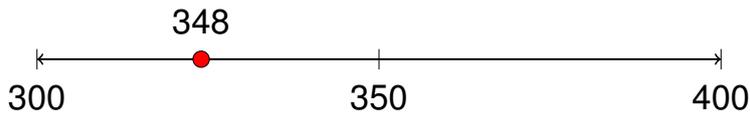
Because it wanted to round up to 10!



Section 2: Reasoning - The Mid-Point Rule

Use number lines to decide which number is closer when rounding.

9. Look at this number line. Is 348 closer to 300 or 400?

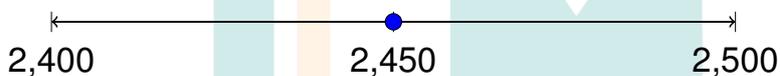


Answer: _____

10. Is 765 closer to 760 or 770?

Answer: _____

11. Look at this number line. Is 2,450 closer to 2,400 or 2,500?



Answer: _____

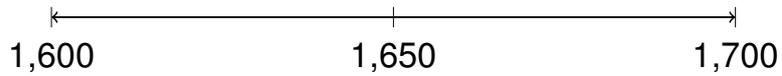
12. When the number is exactly in the middle (like 2,450), which way do we round?

Answer: _____

13. Is 3,825 closer to 3,820 or 3,830?

Answer: _____

14. Draw a dot on the number line to show where 1,670 would be:



Is 1,670 closer to 1,600 or 1,700?

Answer: _____

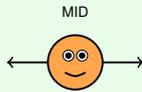
15. A number rounds to 540 when rounded to the nearest 10. What is the smallest number it could be?

Answer: _____

Number Line Navigator!

Why did 5 always sit in the middle?

Because it couldn't decide which way to round!





Section 3: Fluency - Rounding to the Nearest 100

Round these numbers to the nearest 100 using the rounding rules.

16. Round 456 to the nearest 100.

Answer: _____

17. Round 3,782 to the nearest 100.

Answer: _____

18. Round 1,249 to the nearest 100.

Answer: _____

19. Round 5,650 to the nearest 100.

Answer: _____

20. Round 2,834 to the nearest 100.

Answer: _____

21. Round 7,095 to the nearest 100.

Answer: _____

22. Round 4,550 to the nearest 100.



Answer: _____

23. A school has 1,876 students. Round this to the nearest 100.

Answer: _____

24. A stadium holds 8,342 people. Round this to the nearest 100.

Answer: _____

25. Round 9,999 to the nearest 100.

Answer: _____



100

Hundred Hero!

*Why did the student love rounding to 100?
Because it made everything "cents-ible"!*

Excellent work! You've mastered rounding!



Answer Key

Worksheet 5: Rounding Whole Numbers

Section 1: Fluency - Rounding to the Nearest 10

1. Answer: **4,560** (2 is less than 5, round down)
2. Answer: **3,850** (7 is 5 or more, round up)
3. Answer: **1,300** (5 is 5 or more, round up)
4. Answer: **5,670** (3 is less than 5, round down)
5. Answer: **2,410** (8 is 5 or more, round up)
6. Answer: **7,230** (4 is less than 5, round down)
7. Answer: **6,850** (1 is less than 5, round down)
8. Answer: **9,130** (6 is 5 or more, round up)

Section 2: Reasoning - The Mid-Point Rule

9. Answer: **300** (348 is closer to 300 than 400)
10. Answer: **770** (5 or more rounds up)
11. Answer: **Either acceptable** (2,450 is exactly in the middle, but we round up to 2,500)
12. Answer: **Round up** (the "5 or more" rule means round up)
13. Answer: **3,830** (5 or more rounds up)
14. Answer: **Dot should be at 7 on the number line**
1,670 is closer to **1,700**
15. Answer: **535** (535, 536, 537, 538, 539 all round to 540)

Section 3: Fluency - Rounding to the Nearest 100

16. Answer: **500** (56 is 50 or more, round up)
17. Answer: **3,800** (82 is 50 or more, round up)



18. Answer: **1,200** (49 is less than 50, round down)
19. Answer: **5,700** (50 rounds up)
20. Answer: **2,800** (34 is less than 50, round down)
21. Answer: **7,100** (95 is 50 or more, round up)
22. Answer: **4,600** (50 rounds up)
23. Answer: **1,900 students** (76 is 50 or more, round up)
24. Answer: **8,300 people** (42 is less than 50, round down)
25. Answer: **10,000** (99 is 50 or more, round up)





Year 4 Mathematics

Rounding & Estimating Workshop

Worksheet 6: Estimation & Money

Name: _____ Date: _____

Section 1: Fluency - Estimating Sums

Round each number first, then add to estimate the answer.

1. Estimate the answer to

$$452 + 198$$

by rounding each to the nearest 100 first.



Section 2: Problem Solving - Grocery Store Maths

Round money amounts to estimate costs of items.

9. A toy costs \$12.45 and a ball costs \$7.90. Round each to the nearest dollar and estimate the total cost.

\$12.45

\$7.90

Answer: _____

10. A book costs \$15.75 and a pencil case costs \$8.25. Estimate the total by rounding to the nearest dollar.

Answer: _____

11. Sarah has \$50. She wants to buy a game for \$23.80 and a puzzle for \$18.40. Estimate if she has enough money.

Answer: _____

12. A sandwich costs \$6.85 and a drink costs \$3.20. Round to the nearest dollar and estimate the total.

Answer: _____

13. Tom bought items costing \$12.95, \$7.50, and \$4.80. Estimate the total cost by rounding each to the nearest dollar.

Answer: _____



14. A shirt costs \$34.90. Round this to the nearest \$10 to estimate the cost.

Answer: _____

15. Lisa saved \$87.65. Round this to the nearest \$10.

Answer: _____

16. A family spent \$42.30 on groceries and \$28.75 on petrol. Estimate the total spending by rounding to the nearest \$10.

Answer: _____

Money Master!



*Why did the dollar bill go to school?
To get more "cents" about rounding!*



Section 3: Challenge - Reasonableness Check

Use estimation to check if answers make sense.

17. Sam calculated

$$89 \times 3$$

and got 567. Use rounding to estimate and explain why Sam's answer is not reasonable.

Estimation: _____

Explanation: _____

18. Jenny added $456 + 387$ and got 943. Is this reasonable? Estimate to check.

Answer: _____

19. A calculator showed

$$712 - 298 = 414$$

. Use estimation to check if this is reasonable.

Answer: _____

20. Marcus calculated

$$54 \times 6$$

and got 424. Estimate to check if this is correct.

Answer: _____



21. A shop claims that $1,876 + 2,234 = 4,000$. Use rounding to check this claim.

Answer: _____

22. Estimate

$$197 \times 4$$

by rounding 197 to the nearest 10.

Answer: _____

23. A student said

$$3,456 - 1,234 = 2,000$$

. Is this close enough? Use estimation to explain.

Answer: _____

24. Round 4,872 to the nearest 1000 and then multiply by 2. What is your estimate?

Answer: _____

25. A baker made 487 cupcakes on Monday and 523 cupcakes on Tuesday. She thinks she made about 1,100 cupcakes total. Is her estimate reasonable?

Answer: _____



Reasonableness Rockstar!



Why did the answer check itself in the mirror?

To see if it looked "reasonable"!

Outstanding! You're an estimation champion!





Answer Key

Worksheet 6: Estimation & Money

Section 1: Fluency - Estimating Sums

1. Answer: **650**

Working:

$$452 \approx 500, \quad 198 \approx 200, \quad 500 + 200 = 650$$

2. Answer: **2,100**

Working:

$$1,267 \approx 1,300, \quad 843 \approx 800, \quad 1,300 + 800 = 2,100$$

3. Answer: **910**

Working:

$$372 \approx 370, \quad 541 \approx 540, \quad 370 + 540 = 910$$

4. Answer: **500**

Working:

$$789 \approx 800, \quad 312 \approx 300, \quad 800 - 300 = 500$$

5. Answer: **4,200**

Working:

$$2,456 \approx 2,500, \quad 1,723 \approx 1,700, \quad 2,500 + 1,700 = 4,200$$

6. Answer: **480**

Working:

$$953 \approx 950, \quad 478 \approx 480, \quad 950 - 480 = 470$$

(accept 480)

7. Answer: **6,000**

Working:

$$3,825 \approx 4,000, \quad 2,149 \approx 2,000, \quad 4,000 + 2,000 = 6,000$$



8. Answer: **1,200 toys**

Working:

$$687 \approx 700, \quad 534 \approx 500, \quad 700 + 500 = 1,200$$

Section 2: Problem Solving - Grocery Store Maths

9. Answer: **\$20**

Working:

$$\$12.45 \approx \$12, \quad \$7.90 \approx \$8, \quad \$12 + \$8 = \$20$$

10. Answer: **\$24**

Working:

$$\$15.75 \approx \$16, \quad \$8.25 \approx \$8, \quad \$16 + \$8 = \$24$$

11. Answer: **Yes, she has enough**

Working:

$$\$23.80 \approx \$24, \quad \$18.40 \approx \$18, \quad \$24 + \$18 = \$42$$

(less than \$50)

12. Answer: **\$10**

Working:

$$\$6.85 \approx \$7, \quad \$3.20 \approx \$3, \quad \$7 + \$3 = \$10$$

13. Answer: **\$25**

Working:

$$\$12.95 \approx \$13, \quad \$7.50 \approx \$8, \quad \$4.80 \approx \$5, \quad \$13 + \$8 + \$5 = \$26$$

(accept \$25)

14. Answer: **\$30**

Working:

$$\$34.90 \approx \$30$$

15. Answer: **\$90**



Working:

$$\$87.65 \approx \$90$$

16. Answer: **\$70**

Working:

$$\$42.30 \approx \$40, \quad \$28.75 \approx \$30, \quad \$40 + \$30 = \$70$$

Section 3: Challenge - Reasonableness Check

17. Estimation:

$$90 \times 3 = 270$$

Explanation: **Sam's answer of 567 is not reasonable because the estimate is 270, which is much less than 567. The actual answer is 267.**

18. Answer: **Not reasonable**

Working:

$$456 \approx 500, \quad 387 \approx 400, \quad 500 + 400 = 900$$

(943 is too high; actual is 843)

19. Answer: **Yes, reasonable**

Working:

$$712 \approx 700, \quad 298 \approx 300, \quad 700 - 300 = 400$$

(414 is close to 400)

20. Answer: **Not reasonable**

Working:

$$54 \approx 50, \quad 50 \times 6 = 300$$

(424 is too high; actual is 324)

21. Answer: **Not quite right, but close**

Working:

$$1,876 \approx 1,900, \quad 2,234 \approx 2,200, \quad 1,900 + 2,200 = 4,100$$



(actual is 4,110)

22. Answer: 800

Working:

$$197 \approx 200, \quad 200 \times 4 = 800$$

23. Answer: Yes, reasonably close

Working:

$$3,456 \approx 3,500, \quad 1,234 \approx 1,200, \quad 3,500 - 1,200 = 2,300$$

(actual is 2,222)

24. Answer: 10,000

Working:

$$4,872 \approx 5,000, \quad 5,000 \times 2 = 10,000$$

25. Answer: No, too high

Working:

$$487 \approx 500, \quad 523 \approx 500, \quad 500 + 500 = 1,000$$

(her estimate of 1,100 is a bit too high; actual is 1,010)

Congratulations!

You are now a Rounding & Estimation Master!

Keep using estimation to check your work!