

Grade 5 Mathematics

Addition

Complete Worksheet Pack

Mental strategies • Reasoning • Estimation • Word Problems • Challenges

Worksheet 1 – Smart Addition Strategies

Grade 5 Mathematics

A. Add Efficiently

1. $48,500 + 2,750 =$ _____

2. $125,600 + 24,400 =$ _____

3. $398,750 + 201,250 =$ _____

4. $675,000 + 49,999 =$ _____

5. $2,450,000 + 375,000 =$ _____

6. $999,999 + 1,001 =$ _____

B. Choose a Smart Strategy

1. Without calculating in full, explain how you would find $49,998 + 3,005$ quickly.

2. Find $275,000 + 125,000 + 75,000$ using a strategy that makes the calculation easier.

3. Which is easier to calculate mentally: $398,500 + 1,500$ or $398,500 + 15,500$? Explain why.

Worksheet 2 – Missing Numbers & Error Analysis

Grade 5 Mathematics

A. Find the Missing Number

1. $125,600 + \underline{\hspace{2cm}} = 200,000$

2. $\underline{\hspace{2cm}} + 48,750 = 150,000$

3. $375,250 + \underline{\hspace{2cm}} = 500,000$

4. $2,400,000 + \underline{\hspace{2cm}} = 3,000,000$

5. $\underline{\hspace{2cm}} + 275,500 = 1,000,000$

6. $4,250,000 + \underline{\hspace{2cm}} = 5,000,000$

B. Error Detective

1. A student says: $398,750 + 201,200 = 599,850$. Is the answer correct? If not, find the correct answer.

2. A student says: $2,499,999 + 1,001 = 2,500,000$. Check the calculation and explain.

3. Sam estimates $487,200 + 312,900$ as about 700,000. Is this a reasonable estimate? Explain.

Worksheet 3 – Estimation & Reasonableness

Grade 5 Mathematics

A. Estimate First

1. Estimate $48,760 + 31,240$ by rounding each number to the nearest thousand.

2. Estimate $398,500 + 201,600$ by rounding each number to the nearest ten thousand.

3. Estimate $1,249,000 + 752,000$ by rounding each number to the nearest hundred thousand.

4. Estimate $5,487,200 + 2,612,900$ by rounding each number to the nearest million.

B. Exact or Estimate?

1. A library has 18,745 fiction books and 12,380 non-fiction books. Would an exact answer or an estimate be more useful if planning shelf space? Explain.

2. A stadium has 47,850 seats and another stadium has 52,250 seats. Find the exact total, then give a sensible estimate.

3. Circle the calculation that is closest to 1,000,000: $499,800 + 498,900$ OR $610,000 + 380,000$. Explain.

Worksheet 4 – Real-Life Addition Problems

Grade 5 Mathematics

A. Solve the Problems

1. A city has 248,650 people in one district, 175,425 in another, and 86,925 in a third. What is the total population?

2. A museum welcomed 18,750 visitors in April, 21,450 in May and 24,800 in June. How many visitors came during these three months?

3. A family travels 385 km on Friday, 247 km on Saturday and 168 km on Sunday. What total distance did they travel?

4. A school collected ■125,750 for a charity drive in Term 1 and ■98,450 in Term 2. How much was collected altogether?

5. A factory produced 245,600 items in January and 278,950 in February. It produced 156,450 in March. What was the total production?

B. Multi-Step Challenge

1. A bookshop had 125,000 books. It received 27,500 new books in one shipment and 18,750 in another. How many books does it have now?

Worksheet 5 – Addition Challenge

Grade 5 Mathematics

A. Think Carefully

1. Find the missing number: $275,000 + \underline{\hspace{2cm}} = 500,000$.

2. Two numbers have a total of 900,000. One number is 475,500. What is the other number?

3. Create two different addition equations using 4 numbers from: 25,000, 75,000, 125,000, 175,000, 225,000. Both equations must have the same total.

4. If $348,750 + 251,250 = 600,000$, what is $348,750 + 251,350$?

5. If $A = 125,500$ and $B = 274,500$, find $A + B + 100,000$ without recalculating everything.

B. True or False? Explain

1. $499,999 + 2,001 = 502,000$

2. $1,250,000 + 750,000 = 2,000,000$

3. $398,000 + 202,000$ is greater than 600,000

Answer Key – Worksheet 1

1. 51,250
2. 150,000
3. 600,000
4. 724,999
5. 2,825,000
6. 1,001,000
7. Strategy example: $49,998 + 3,005 = 50,000 + 3,003 = 53,003$.
8. $275,000 + 125,000 + 75,000 = 475,000$.
9. $398,500 + 1,500$ is easier because it makes a round 400,000.

Answer Key – Worksheet 2

1. 74,400
2. 101,250
3. 124,750
4. 600,000
5. 724,500
6. 750,000
7. Incorrect. The correct answer is 599,950.
8. Correct. $2,499,999 + 1,001 = 2,501,000$.
9. 700,000 is somewhat low; a better estimate is about 800,000.

Answer Key – Worksheet 3

1. About 80,000
2. About 600,000
3. About 2,000,000
4. About 8,000,000
5. An estimate is more useful for planning shelf space.
6. Exact = 100,100; estimate $\approx$ 100,000.
7. $499,800 + 498,900 = 998,700$, which is closer to 1,000,000.

Answer Key – Worksheet 4

1. 511,000 people
2. 65,000 visitors
3. 800 km
4. ■224,200
5. 681,000 items
6. $125,000 + 27,500 + 18,750 = 171,250$ books.

Answer Key – Worksheet 5

1. 225,000

2. 424,500

3. Answers vary. Example: $25,000 + 175,000 + 225,000 = 425,000$ and $75,000 + 125,000 + 225,000 = 425,000$.

4. 600,100

5. 500,000

6. True. $499,999 + 2,001 = 502,000$.

7. True. $1,250,000 + 750,000 = 2,000,000$.

8. False. $398,000 + 202,000 = 600,000$.