

Math Practice Sheets

Addition and Subtraction Part I



Student Name _____

Examples

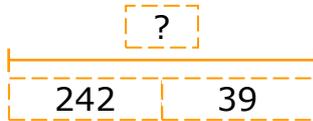
Practice Questions

Extra Challenge Unit

Example

Add using mental math.

Find $242 + 39$.



One way is to break apart a number to find a ten. i.e. adding 8 to 242 is easy. Break apart 39.



$$\therefore 242 + 39 = 281$$

Another way is to use compensation.

$$242 + 39$$

$$242 + 40 = 282$$

We added 1 too many. So, subtract 1. i.e.

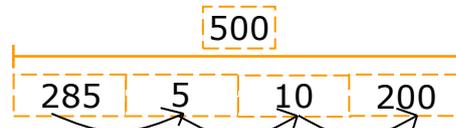
$$282 - 1 = 281$$

$$\therefore 242 + 39 = 281$$

Subtract using mental math.

Find $500 - 285$.

One way is to count on.



$$285 + 5 = 290$$

$$290 + 10 = 300$$

$$300 + 200 = 500$$

$$\text{i.e. } 5 + 10 + 200 = 215$$

$$\therefore 500 - 285 = 215$$

Another way is to use compensation.

It is easy to subtract 300.

$$\therefore 500 - 300 = 200$$

We subtracted 15 too many. So, add 15.

$$200 + 15 = 215$$

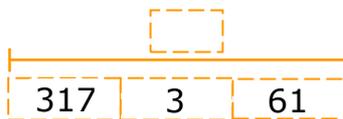
$$\therefore 500 - 285 = 215$$

Note: $2 + 3 = 3 + 2$ is commutative property, $(4 + 5) + 6 = 4 + (5 + 6)$ is associative property, and $9 + 0 = 9$ is identity property of addition.

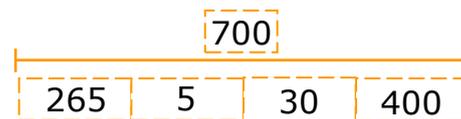
Exercise

1. Add or subtract using mental math.

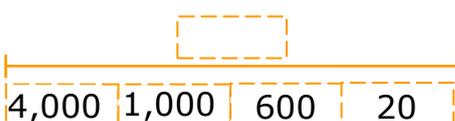
a) $317 + 64$



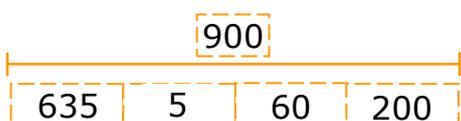
b) $700 - 265$



c) $4,000 + 1,620$



d) $900 - 635$



Exercise

2. Find the sum or the difference using mental math.

a) $839 + 0$

b) $(326 + 10) + 5$

c) $400 - 135$

d) $1,200 - 765$

e) $3,000 + 2,945$

f) $1,680 + 8,000$

g) $674 - 265$

h) $507 - 298$

Example

Estimate by rounding to the nearest ten.

$$\begin{array}{r} 865 \rightarrow 870 \\ + 412 \rightarrow + 410 \\ \hline 1,280 \end{array}$$

$$\begin{array}{r} 693 \rightarrow 690 \\ - 78 \rightarrow - 80 \\ \hline 610 \end{array}$$

Estimate by rounding to nearest hundred.

$$\begin{array}{r} 5,734 \rightarrow 5,700 \\ + 568 \rightarrow + 600 \\ \hline 6,300 \end{array}$$

$$\begin{array}{r} 9,758 \rightarrow 9,800 \\ - 2,345 \rightarrow - 2,300 \\ \hline 7,500 \end{array}$$

Round each number according to the instructions or to the highest place value the numbers have in common. Then add or subtract from right to left.

Exercise

1. Estimate the following by rounding to the nearest ten.

$$\begin{array}{r} \text{a)} \quad 924 \rightarrow \\ + 528 \rightarrow \\ \hline \end{array}$$

$$\begin{array}{r} \text{b)} \quad 738 \\ - 271 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c)} \quad 6,493 \\ + 345 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d)} \quad 4,381 \\ - 142 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e)} \quad 3,829 \\ - 1,651 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f)} \quad 5,434 \\ - 2,816 \\ \hline \end{array}$$

Exercise

2. Estimate the following by rounding to the nearest hundred.

a)

$$\begin{array}{r} 365 \longrightarrow \\ + 712 \longrightarrow \\ \hline \end{array}$$

b)

$$\begin{array}{r} 629 \\ - 248 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 8,452 \\ + 7,329 \\ \hline \end{array}$$

d)

$$\begin{array}{r} 6,792 \\ - 4,444 \\ \hline \end{array}$$

3. Estimate each of the following sum or difference.

a)

$$\begin{array}{r} 4,591 \\ + 429 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 7,236 \\ - 163 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 8,736 \\ + 9,517 \\ \hline \end{array}$$

d)

$$\begin{array}{r} 7,595 \\ - 2,309 \\ \hline \end{array}$$

Exercise

Solve the problems below.

4. Out of 682 pens, 245 are damaged. About how many pens are not damaged? Estimate by rounding to the nearest ten.
5. Deion and Denise counted the nickels that they had been saving for two years. Deion had 875 and Denise had 629 nickels. About how many nickels did they have together? Circle the correct answer.

$$\begin{array}{r} \text{a)} \quad 800 \\ + 700 \\ \hline 1,500 \end{array}$$

$$\begin{array}{r} \text{b)} \quad 900 \\ + 600 \\ \hline 1,500 \end{array}$$

$$\begin{array}{r} \text{c)} \quad 900 \\ + 700 \\ \hline 1,600 \end{array}$$

$$\begin{array}{r} \text{d)} \quad 800 \\ + 600 \\ \hline 1,400 \end{array}$$

6. A bakery produces 5,308 plain bagels and 1,589 egg bagels daily. About how many bagels does the bakery produce each day? Estimate by rounding to the nearest hundred.
7. There are 9,615 books in a library. 576 books are science books and the rest are math books. About how many books are math books? Round each number to the highest place value the numbers have in common. Then estimate the difference.

Example

Add: 3,489, 892, and 2,056

$$\begin{array}{r}
 \boxed{1} \boxed{2} \boxed{1} \\
 3,489 \\
 892 \\
 + 2,056 \\
 \hline
 6,437
 \end{array}$$

Add: 2,343 and 5,878

$$2,343 + 5,878 = 8,221$$

Add numbers in the ones, tens, hundreds, and thousands places from right to left respectively and regroup if necessary.

Subtract: 3,572 from 4,669

$$\begin{array}{r}
 \boxed{5} \boxed{16} \\
 4,669 \\
 - 3,572 \\
 \hline
 1,097
 \end{array}$$

Subtract: 2,681 and 5,931

$$5,931 - 2,681 = 3,250$$

Subtract the numbers in the ones, tens, hundreds, and thousands positions from right to left respectively and regroup if necessary.

Exercise

1. Add the following.

a)

$$\begin{array}{r}
 769 \\
 + 85 \\
 \hline
 \end{array}$$

b)

$$\begin{array}{r}
 3,256 \\
 7,851 \\
 + 93 \\
 \hline
 \end{array}$$

c)

$$875 + 263 =$$

d)

$$2,592 + 361 + 48 =$$

e)

$$\begin{array}{r}
 6,317 \\
 208 \\
 + 5,432 \\
 \hline
 \end{array}$$

f)

$$\begin{array}{r}
 87 \\
 564 \\
 + 1,234 \\
 \hline
 \end{array}$$

Exercise

2. Subtract the following.

a)

$$\begin{array}{r} 968 \\ - 467 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 8,165 \\ - 2,019 \\ \hline \end{array}$$

c)

$$724 - 354 =$$

d)

$$6,835 - 472 =$$

3. Add or subtract.

a)

$$\begin{array}{r} 5,608 \\ 572 \\ + 1,945 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 9,243 \\ - 5,018 \\ \hline \end{array}$$

c)

$$5,832 - 415 =$$

d)

$$8,346 + 509 =$$

Exercise

Solve the problems below.

4. A shopkeeper has two baskets of apples. The first basket has 3,489 apples and the second basket has 4,892 apples. How many apples are there altogether?
5. Jilly has to travel 5,675 miles. She traveled 2,679 miles in ten days. How many miles does she have left to travel?
- a) 3,996 miles b) 7,996 miles
- c) 2,996 miles d) 2,969 miles
6. There are 2,348 pages in an English book, 957 pages in a Math book, and 65 pages in a Science book. Find the total pages.
7. Karla has \$42,525. If she buys a motorcycle for \$15,956, how much money does she have left?

Example

Find sum of 500 and 289.

$$\begin{array}{r} 500 \\ + 289 \\ \hline 789 \end{array}$$

Find sum of 675 and 805.

$$675 + 805 = 1,480$$

Add ones, tens, hundreds, and thousands from right to left respectively and regroup if necessary. Note that addition of zero with any number is same, i.e. $0 + 9 = 9$.

Subtract 289 from 500.

$$\begin{array}{r} \boxed{4} \boxed{9} \boxed{10} \\ \cancel{5} \cancel{0} \cancel{0} \\ - 289 \\ \hline 211 \end{array}$$

Subtract 675 from 805.

$$805 - 675 = 130$$

Subtract ones, tens, hundreds, and thousands from right to left respectively and regroup if necessary.

Exercise

1. Find the sum.

a)

$$\begin{array}{r} 4,050 \\ + 6,750 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 3,175 \\ + 2,905 \\ \hline \end{array}$$

c)

$$250 + 107 + 20 =$$

d)

$$\begin{array}{r} 60 \\ 305 \\ + 1,045 \\ \hline \end{array}$$

Exercise

2. Find the difference.

a)

$$\begin{array}{r} 800 \\ - 346 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 5,002 \\ - 479 \\ \hline \end{array}$$

c)

$$4,000 - 1,067 =$$

d)

$$\begin{array}{r} 9,060 \\ - 2,170 \\ \hline \end{array}$$

3. Find the sum or the difference.

a)

$$\begin{array}{r} 2,901 \\ 409 \\ + 6,000 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 3,500 \\ - 1,289 \\ \hline \end{array}$$

c)

$$7,000 - 5,005 =$$

d)

$$30 + 405 + 1,005 =$$

Example

Add using patterns.

$7 + \underline{\quad} = 12$

$70 + \underline{\quad} = 120$

$700 + \underline{\quad} = 1,200$

$7,000 + \underline{\quad} = 12,000$



$7 + 5 = 12$

$70 + 50 = 120$

$700 + 500 = 1,200$

$7,000 + 5,000 = 12,000$

Subtract using patterns.

$9 - 5 = \underline{\quad}$

$90 - 50 = \underline{\quad}$

$900 - 500 = \underline{\quad}$

$9,000 - 5,000 = \underline{\quad}$



$9 - 5 = 4$

$90 - 50 = 40$

$900 - 500 = 400$

$9,000 - 5,000 = 4,000$

You can add or subtract patterns over increasing place values.

Exercise

1. Add or subtract the following using patterns.

a)

$6 + \underline{\quad} = 15$

$60 + \underline{\quad} = 150$

$600 + \underline{\quad} = 1,500$

$6,000 + \underline{\quad} = 15,000$

b)

$7 - 4 = \underline{\quad}$

$70 - 40 = \underline{\quad}$

$700 - 400 = \underline{\quad}$

$7,000 - 4,000 = \underline{\quad}$

c)

$8 - 6 = \underline{\quad}$

$80 - 60 = \underline{\quad}$

$800 - 600 = \underline{\quad}$

$8,000 - 6,000 = \underline{\quad}$

d)

$3 + \underline{\quad} = 10$

$30 + \underline{\quad} = 100$

$300 + \underline{\quad} = 1,000$

$3,000 + \underline{\quad} = 10,000$

Exercise

e)

$$\begin{aligned} \underline{\quad} + 9 &= 12 \\ \underline{\quad} + 90 &= 120 \\ \underline{\quad} + 900 &= 1,200 \\ \underline{\quad} + 9,000 &= 12,000 \end{aligned}$$

f)

$$\begin{aligned} \underline{\quad} - 4 &= 5 \\ \underline{\quad} - 40 &= 50 \\ \underline{\quad} - 400 &= 500 \\ \underline{\quad} - 4,000 &= 5,000 \end{aligned}$$

g)

$$\begin{aligned} \underline{\quad} - 2 &= 4 \\ \underline{\quad} - 20 &= 40 \\ \underline{\quad} - 200 &= 400 \\ \underline{\quad} - 2,000 &= 4,000 \end{aligned}$$

h)

$$\begin{aligned} \underline{\quad} + 8 &= 13 \\ \underline{\quad} + 80 &= 130 \\ \underline{\quad} + 800 &= 1,300 \\ \underline{\quad} + 8,000 &= 13,000 \end{aligned}$$

i)

$$\begin{aligned} 7 + \underline{\quad} &= 11 \\ 70 + \underline{\quad} &= 110 \\ 700 + \underline{\quad} &= 1,100 \\ 7,000 + \underline{\quad} &= 11,000 \end{aligned}$$

j)

$$\begin{aligned} 3 - \underline{\quad} &= 2 \\ 30 - \underline{\quad} &= 20 \\ 300 - \underline{\quad} &= 200 \\ 3,000 - \underline{\quad} &= 2,000 \end{aligned}$$

k)

$$\begin{aligned} \underline{\quad} - 5 &= 3 \\ \underline{\quad} - 50 &= 30 \\ \underline{\quad} - 500 &= 300 \\ \underline{\quad} - 5,000 &= 3,000 \end{aligned}$$

l)

$$\begin{aligned} \underline{\quad} + 7 &= 14 \\ \underline{\quad} + 70 &= 140 \\ \underline{\quad} + 700 &= 1,400 \\ \underline{\quad} + 7,000 &= 14,000 \end{aligned}$$

Exercise

Solve the problems below.

2. 50 apples less than a certain number of apples is 20 apples.
What is the missing number?

$$\underline{\hspace{2cm}} - 50 = 20$$

3. Which number makes the given equation true?

$$90,000 - \underline{\hspace{2cm}} = 30,000$$

- a) 70,000 b) 80,000
c) 60,000 d) 50,000

4. The cost of a motorcycle is 88,000 dollars. You have 55,000 dollars. How much more money do you need to buy the motorcycle?

$$55,000 + \underline{\hspace{2cm}} = 88,000$$

- 5.

$$3,000 + 5,000 = \underline{\hspace{2cm}}$$

English books

$$9,000 - 2,000 = \underline{\hspace{2cm}}$$

Math books

Are there more English or Math books? Explain.

Exercise

1. The sum of 25, 50, and 375 is 450. What is the sum of 375, 50, and 25? Explain which property of addition you used.
2. Is $2,850 - 1,750$ more or less than 1,000? How you can tell using mental math? Explain.
3. Which is the best estimate for $7,435 - 3,650$?
 - a) 4,000
 - b) 5,000
 - c) 3,000
 - d) 2,000
4. On Friday, Mike sold 91 tickets to a school talent show. He sold 26 on Saturday and 84 on Sunday. About how many tickets to the talent show did he sell altogether?

Exercise

9. A dairy produces 50,000 bottles of milk in one day. It sold 42,655 bottles to various shops. How many bottles are left?

10. Add or subtract the following using patterns.

a)

$$25 + \underline{\quad} = 65$$

$$250 + \underline{\quad} = 650$$

$$2,500 + \underline{\quad} = 6,500$$

$$25,000 + \underline{\quad} = 65,000$$

b)

$$\underline{\quad} - 33 = 44$$

$$\underline{\quad} - 330 = 440$$

$$\underline{\quad} - 3,300 = 4,400$$

$$\underline{\quad} - 33,000 = 44,000$$

11. Are there more males or females? Explain.

$$60,000 + 50,000$$

$$= \underline{\quad} \text{ Male}$$

$$300,000 - 100,000$$

$$= \underline{\quad} \text{ Female}$$

Congratulations!

You have finished a lesson. You should be very proud of yourself.

Now it is time to progress to the next lesson.

Your next assignment is notated by a green arrow.

Lesson 1 Learning Numeration

Lesson 2 Addition and Subtraction Part I

Lesson 3 Addition and Subtraction Part II



Unit 3.1 Finding the Missing Digits

Unit 3.2 Problem Solving with Missing or Extra Information

Unit 3.3 Mixed Problem Solving

Unit 3.4 Problem Solving Using Pictures and Equations

Unit 3.5 Math Challenges

Lesson 4 Multiplication Part I

Review 1 Review of Lesson 1, 2, 3, and 4

Lesson 5 Multiplication Part II

Lesson 6 Division

Lesson 7 Multiplying by 1-Digit Numbers Part I

Lesson 8 Multiplying by 1-Digit Numbers Part II

Review 2 Review of Lesson 5, 6, 7, and 8

Lesson 9 Algebra Part I

Lesson 10 Algebra Part II

Lesson 11 Multiplication Strategies

Lesson 12 Multiplication by 2-Digit Numbers

Review 3 Review of Lesson 9, 10, 11, and 12

Lesson 13 Dividing by 1-Digit Numbers Part I

Lesson 14 Dividing by 1-Digit Numbers Part II

Lesson 15 Geometry Part I

Lesson 16 Geometry Part II

Review 4 Review of Lesson 13, 14, 15, and 16

Lesson 17 Fractions

Lesson 18 Fraction Operation

Lesson 19 Decimals

Lesson 20 Decimal Number Operation

Review 5 Review of Lesson 17, 18, 19, and 20

Lesson 21 Measurement Part I

Lesson 22 Measurement Part II

Lesson 23 Solid and Measurement

Lesson 24 Graph

Review 6 Review of Lesson 21, 22, 23, and 24

Lesson 25 Equation and Function

Lesson 26 Transformation, Congruence, and Symmetry

Lesson 27 Probability

Review of Lesson 1 to 14

Review of Lesson 15 to 27

Unit 2.1

- | | | | | |
|----|-------------------|----------|----------|--------------|
| 1. | a) 381 | b) 435 | c) 5,620 | d) 265 |
| 2. | a) 839 | b) 341 | c) 265 | d) 435 |
| | e) 5,945 | f) 9,680 | g) 409 | h) 209 |
| 3. | Friday and Monday | | 4. c | 5. Less than |
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Unit 2.2

- | | | | | |
|----|----------|----------|-----------|----------|
| 1. | a) 1,450 | b) 470 | c) 6,840 | d) 4,240 |
| | e) 2,180 | f) 2,610 | | |
| 2. | a) 1,100 | b) 400 | c) 15,800 | d) 2,400 |
| 3. | a) 5,000 | b) 7,000 | c) 18,200 | d) 5,300 |
| 4. | 430 | 5. b | 6. 6,900 | 7. 9,000 |
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Unit 2.3

- | | | | | |
|----|-----------|-----------|----------|-----------|
| 1. | a) 854 | b) 11,200 | c) 1,138 | d) 3,001 |
| | e) 11,975 | f) 1,885 | | |
| 2. | a) 501 | b) 6,146 | c) 370 | d) 6,363 |
| 3. | a) 8,125 | b) 4,225 | c) 5,417 | d) 8,855 |
| 4. | 8,381 | 5. c | 6. 3,370 | 7. 26,569 |
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Unit 2.4

- | | | | | |
|----|-----------|----------|----------|---------------|
| 1. | a) 10,800 | b) 6,080 | c) 377 | d) 1,470 |
| 2. | a) 454 | b) 4,523 | c) 2,933 | d) 6,890 |
| 3. | a) 9,310 | b) 2,211 | c) 1,195 | d) 1,440 |
| 4. | car | 5. d | 6. 3,525 | 7. 20,350,000 |
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Unit 2.5

- | | | |
|----|----------------------|----------------------|
| 1. | a) 9; 90; 900; 9,000 | b) 3; 30; 300; 3,000 |
| | c) 2; 20; 200; 2,000 | d) 7; 70; 700; 7,000 |
| | e) 3; 30; 300; 3,000 | f) 9; 90; 900; 9,000 |
| | g) 6; 60; 600; 6,000 | h) 5; 50; 500; 5,000 |
| | i) 4; 40; 400; 4,000 | j) 1; 10; 100; 1,000 |
| | K) 8; 80; 800; 8,000 | l) 7; 70; 700; 7,000 |
| 2. | 70 | 3. c |
| 4. | 33,000 | 5. English |
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Unit 2.6

- | | | |
|-----|--------------------------------------|---------------------------|
| 1. | 450; associative | 2. More than |
| 3. | c | 4. 200 |
| 5. | 7,531; 1,357; 8,888 | |
| 6. | 21,608 | |
| 7. | 99,999; 10,000; 109,999 | |
| 8. | $86,420 - 20,468 = 65,952$ | |
| 9. | 7,345 | |
| 10. | a) 40; 400; 4,000; 40,000 | b) 77; 770; 7,700; 77,000 |
| 11. | $110,000 < 200,000$ (female greater) | |
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