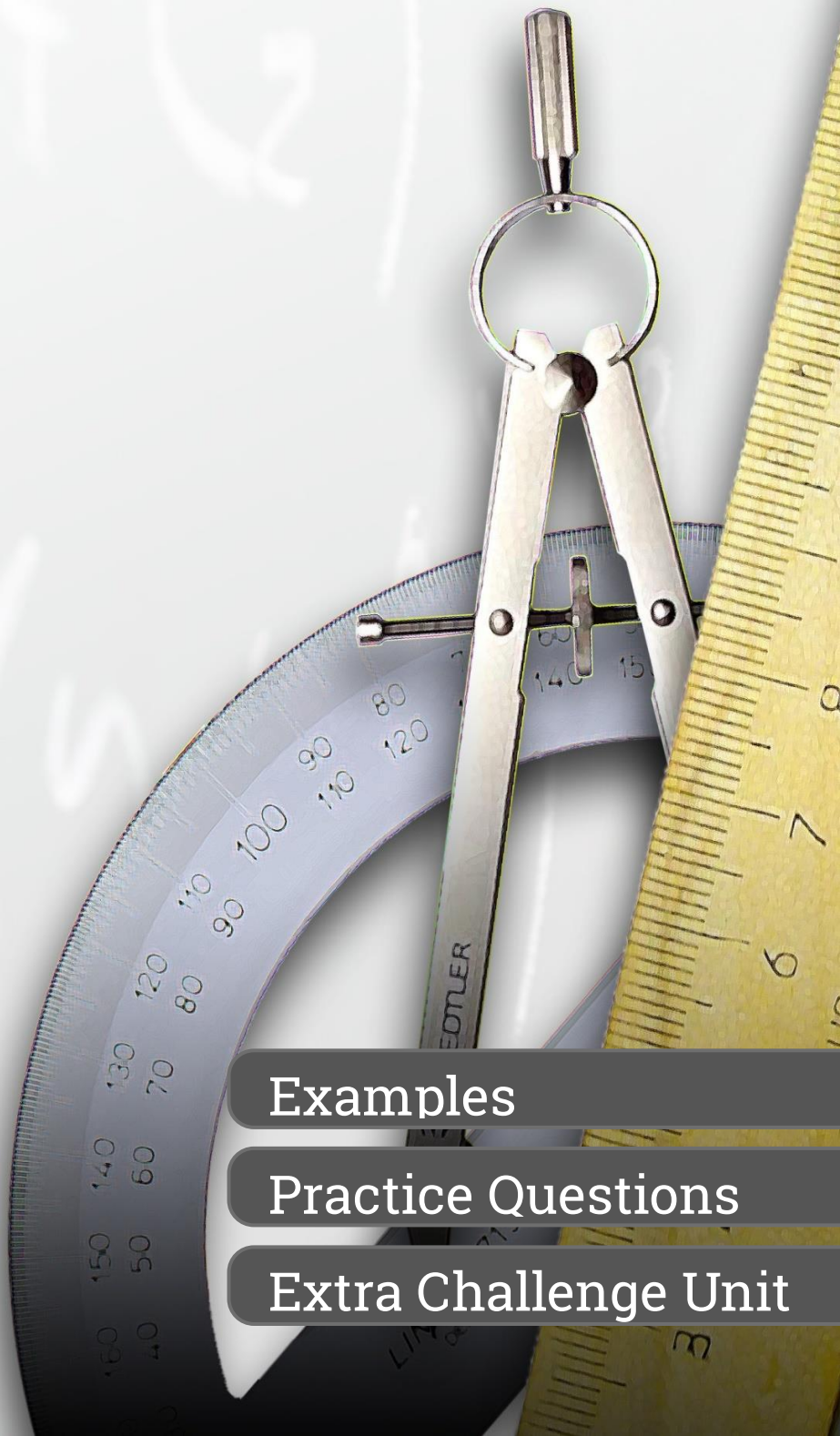
Grade 3 – Lesson 3

Math Practice Sheets

Addition of Whole Numbers Part I



Examples

Practice Questions

Extra Challenge Unit

Student Name

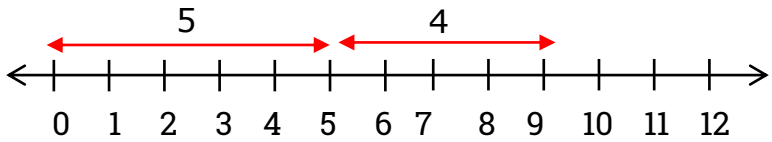
_____

Unit 3.1

Addition of Whole Numbers

Example

Philip has 5 cats.
Maria has 4 dogs.
How many pets do they have together?



5 + 4 = 9

Addition has order, zero, and grouping properties.

- Commutative (order) Property: If two numbers are added in any order their sum remains the same. (2+6=6+2=8)
- Identity (zero) Property: A zero added to a number does not change the value of the number. (7+0=7)
- Associative (grouping) Property: If three or more numbers are added in different groups, their sum remains the same in all cases.
  (1+2)+3=1+ (2+3)3 + 3 = 1 + 56 = 6 ↔ ↔

Exercise

1. Write the missing number and the property used for each.

a) 15 + ___ = 15

_____ property

b) 37 + 21 = ___ + 37

_____ property

c) 5+(9 + 4) = (___ + 9) + 4

_____ property

d) ___ + 200 = 200

_____ property

e) 68 + ___ = 59 + 68

_____ property

f) (9 +___) + 7 = 9 + (8 + 7)

_____ property

g) (6 + 7) + 3 = ___ + (7 + 3)

_____ property

h) 850 + ___ = 950 + 850

_____ property

i) ___ + 752 = 752 + 401

_____ property

j) (5+ 7) + ___ = 5 + (7 + 8)

_____ property

Unit 3.1

Addition of Whole Numbers

Exercise

Solve the problem below.

2. In a garden, there are 15 orange trees, 7 apple trees, and 3 pear trees. How many trees are there in total? Which property did you use to find the total?

3. (20 + 50) + 10 = 20 + (50+10) uses the

a) Associative property

b) Balance property

c) Commutative property

d) Distributive property

4. Alvin has 35 pennies and 65 nickels.
Luna has 65 nickels and 35 pennies.
Do they have an equal number of coins?
Why or why not?

5. Use the following numbers to complete the sum.

Numbers: 12 22 25 32 35

a) ____ + ____ = 34

b) ____ + ____ = 37

c) ____ + ____ = 57

d) ____ + ____ = 60

Unit 3.2

Exploring Addition on a Hundred Chart

Example

Use hundred chart to add 27+39.

Follow these steps to add 27+39.

- Start at 27.
- Move down 4 rows to add 40. You added to 40 to 27. But you only needed to add 39. So, you need to subtract 1.
- Move left 1 space.
- You end up at 66.

27 + 39 = 66

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Exercise

1. Use the hundred chart to add.

a)

14 + 31 = ____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

b)

58 + 27 = ____

51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Unit 3.2

Exploring Addition on a Hundred Chart

Exercise

2. Find each sum using a hundred charts.

a) 35 + 40

b) 61 + 25

c) 78 + 13

d) 28 + 42

e) 65 + 35

f) 39 + 25

g) 46 + 29

h) 57 + 35

i) 72 + 19

j) 31 + 28

Unit 3.2

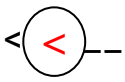
Exploring Addition on a Hundred Chart

Exercise

Solve the problems below.

3. There are 38 cows and 17 pigs on a farm.
How many animals are there in total?

4. Which number makes the given relation true?

62 + 35 <  __

a) 90 b) 95

c) 99 d) 89

5. Maria bought 46 strawberries and 25 bananas for her birthday party.
How many fruits did she buy in all?

6. There are 29 students inside the classroom and 65 students outside the classroom. How many students are there in total?

Unit 3.3

Addition Using Mental Math

Example

Find 36 + 15 using mental math.

One way to find the sum is break apart both addends.

- Break apart both addends.
  (36 = 30 + 6 and 15 = 10 + 5)
- Add the tens and the ones.
  (30 + 10 = 40 and 6 + 5 = 11)
- Add the tens and ones.
  (40 + 11 = 51)

36+15=51

Another way to find the sum is break apart one of the Addends.

- Break apart 15.
  (15 = 10 + 5)
- Add 10 to 36.
  (36 + 10 = 46)
- Add 5 to 46.
  (46+5 = 51)

36+15=51

Exercise

1. Break apart one of the addends to mentally add the following.

a) 46 + 23

23 = 20 + ____

46 + ____ = 66

____ + 3 = 69

∴ 46 + 23 = ____

b) 82 + 17

17 = 10 + ____

82 + ____ = 92

____ + 7 = 99

∴ 82 + 17 = ____

c) 65 + 12

12 = 10 + ____

65 + ____ = 75

____ + 2 = 77

∴ 65 + 12 = ____

d) 38 + 24

24 = 20 + ____

38 + ____ = 58

____ + 4 = 62

∴ 38 + 24 = ____

Unit 3.3

Addition Using Mental Math

Exercise

2. Make a ten to add mentally.

a) 53 + 19

19 = 7 + ____

____ + 7 = 60

60 + ____ = 72

∴ 53 + 19 = ____

b) 76 + 15

15 = ____ + 11

76 + ____ = 80

80 + ____ = 91

∴ 76 + 15 = ____

c) 34 + 29

29 = ____ + 23

34 + ____ = 40

40 + ____ = 63

∴ 34 + 29 = ____

d) 67 + 17

17 = 3 + ____

67 + ____ = 70

70 + ____ = 84

∴ 67 + 17 = ____

3. Find the sum using mental math.

a) 28 + 9

b) 45 + 21

c) 74 + 18

d) 52 + 29

Unit 3.3

Addition Using Mental Math

Exercise

Solve the problems below.

4. Mrs. Stevenson is 24 years. Mrs. Heron is 19 years old. Find their combined age.

5. There are 36 students in Mr. Campos's class and 28 students in Mr. Horan's class. How many students are in the two classes?

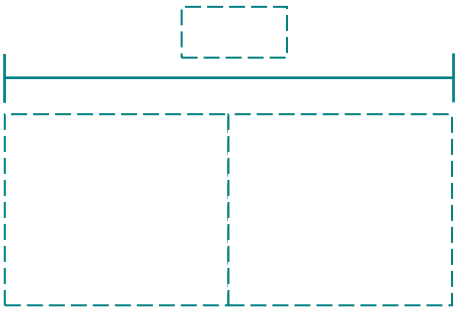
a) 36+28= 54

b) 36+28=55

c) 36+28= 63

d) 36+28=64

6. Use mental math to find the total.



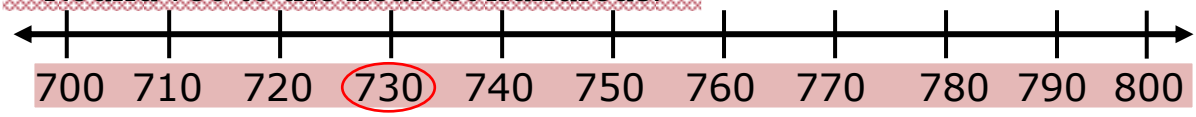
7. Find the sum of 35 + 17 using mental math in two different ways.

Unit 3.4

How to Round

Example

Round 730 to the nearest hundreds.



730 lies between 700 and 800. 730 is nearer to 700 than 800.

∴ 730 is round down to 700.

436 → 400
450 → 500
471 → 500

When we round a number to a particular place,

a) We look at the digit immediately to the right.

b) If the digit to the right is 5, 6, 7, 8, or 9; we increase the value of the digit by 1.

c) If the digit to the right place is 0, 1, 2, 3, or 4; the value the digit of stays the same.

Exercise

1. Round to the nearest tens place.

a) 28

T	O
2	8

28 → ____

b) 81

T	O

81 → ____

c) 45

T	O

45 → ____

Unit 3.4

How to Round

Exercise

2. Round to the nearest hundred.

a) 260

H	T	O

260 → ____

b) 708

H	T	O

708 → ____

c) 355

H	T	O

355 → ____

d) 525

H	T	O

525 → ____

e) 168

H	T	O

168 → ____

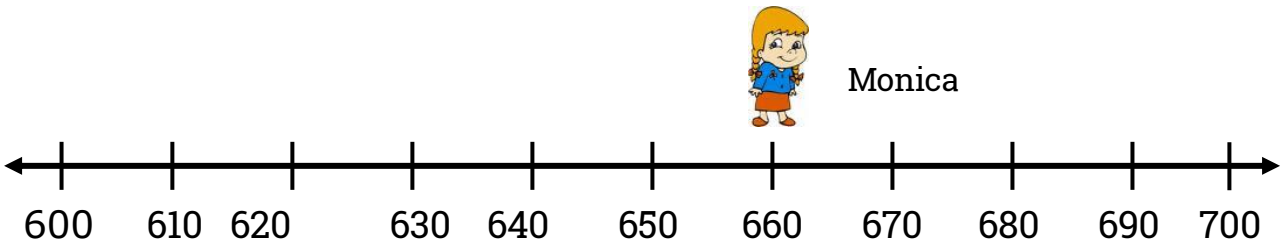
Unit 3.4

How to Round

Exercise

Solve the problems below.

3. Which number is nearest to Monica600 or 700?



Monica is nearer to ☐ than ☐ .

∴660 is rounded up to ____.

4. Round 746 to the nearest ten.

a) 740 b) 745

c) 750 d) 700

5. The cost of a TV is $530. Round the cost of TV to the nearest hundred.

6. Jessie has two hundred and seventeen books. Round the number of books to the nearest hundred.

Unit 3.5

How to Estimate Sums

Example

Estimate the sum.

$$\begin{array}{r} 174 \\ +\ 36 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow 170 \\ \rightarrow +\ 40 \\ \hline 210 \end{array}$$

The highest place value for both 174 and 36 is the tens place. Round 174 and 36 to the tens place.
Then add.

$$\begin{array}{r} 427 \\ +\ 185 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow 400 \\ \rightarrow +\ 200 \\ \hline 600 \end{array}$$

The highest place value for 427 and 185 is the hundreds place. Round 427 and 185 to the hundreds place.
Then add.

Note: Round each number to the highest place value, the numbers have in common. Then, add from right to left.

Exercise

1. Estimate each sum rounding to the nearest ten.

a)

b)

c)

d)

e)

f)

g)

h)

Unit 3.5

How to Estimate Sums

Exercise

2. Estimate each sum by rounding to the nearest hundred.

a)

$$\begin{array}{r} 238 \\ +3716 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 482 \\ +246 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 590 \\ +2096 \\ \hline \end{array}$$

d)

$$\begin{array}{r} 736 \\ +\ 556 \\ \hline \end{array}$$

3. Estimate each sum.

a)

$$\begin{array}{r} 265 \\ +\ 42 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 547 \\ +\ 66 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 712 \\ +255 \\ \hline \end{array}$$

d)

$$\begin{array}{r} 457 \\ +3076 \\ \hline \end{array}$$

e)

$$\begin{array}{r} 643 \\ +2806 \\ \hline \end{array}$$

f)

$$\begin{array}{r} 147 \\ +\ 95 \\ \hline \end{array}$$

Unit 3.5

How to Estimate Sums

Exercise

Solve the problems below.

4. Larry has $91 and Kathy has $65. Estimate the total amount of money they have together by rounding to the nearest ten.

5. Which expression is the best estimate for 800?

a) 300+420

b) 460+305

c) 650+201

d) 450+450

6. Jackie bought a calculator costing $272. The shopkeeper told him to pay the amount of money found by rounding the cost to the nearest hundred. How much money did Jackie pay?

7. There are 150 boys and 510 girls in a school. About how many students are there in total?

Unit 3.6

Exploring Mixed Problem Solving

Example

Emily has $26.

She gets $9 from her father.

How much money does she have in total?

Vertical addition

$$\begin{array}{r} {\scriptstyle 1} \\ 26 \\ +\ 9 \\ \hline 35 \end{array}$$

Horizontal addition

$26 + 9 = 35$

$\therefore$ Emily has 35 dollars.

Exercise

1. Add the following.

a) $\begin{array}{r} 35 \\ +\ 7 \\ \hline \end{array}$

b) $\begin{array}{r} 52 \\ +\ 8 \\ \hline \end{array}$

c) $64 + 9 = \_\_\_\_$

d) $45 + 6 = \_\_\_\_$

e) What must be added to the sum of 2 and 3 to make the total sum 10?

$(2 + 3) + \_\_\_\_ = 10$

f) What must be added to the sum of 7 and 20 to make the total sum 35?

$\_\_\_\_ + (7 + 20) = 35$

g) What must be added to the sum of 15 and 30 to make the total sum 70?

$15 + (\_\_\_\_ + 30) = 70$

Unit 3.6

Exploring Mixed Problem Solving

Exercise

Solve the problems below.

2. Bianca has 17 pennies and 33 dimes.
How many coins does she have?

3. The cost of a toy is $42. You have $24. How much more money do you need to buy the toy?

$$24 + \_\_\_\_ = 42$$

a) 20 b) 18

c) 22 d) 16

4. Monica is 36 years old. Her son is 10 years old. Find their combined age.

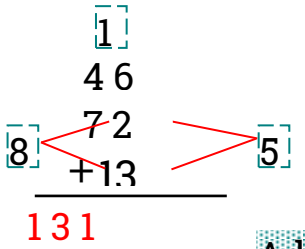
5. A calculator costs $45 and a book costs $35. How much do both items cost?

Unit 3.7

Adding three 2-Digit Numbers

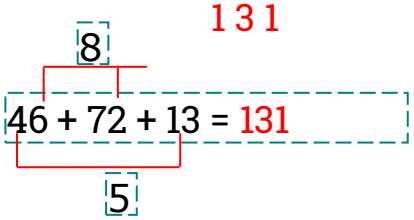
Example

Find the sum of 46 + 72 + 13. .



Add any 2 ones. i.e. 2 + 3 = 5, then 5 + 6 = 11.

Add any 2 tens. i.e. 1 + 7 = 8, then 8 + 4 + 1 = 13.



Add any 2 ones. i.e. 6 + 2 = 8, then 8 + 3 = 11.

Add any 2 tens. i.e. 4 + 1 = 5, then 5 + 7 + 1 = 13.

Exercise

1. Find each sum.

a)
1 6
5 5
+3 2

b)
27 + 48 + 61 = ____

c)
39 + 72 + 43 = ____

d)
5 6
2 2
+1 8

e)
5 8
2 7
+ 5

f)
39 + 72 + 3 = ____

g)
41 + 36 + 80 = ____

h)
8 4
5 3
+ 7

Unit 3.7

Adding three 2-Digit Numbers

Exercise

Solve the problems below.

2. There are 45 boys, 62 girls, and 13 teachers at a movie theater. How many people are at the movie theater?

3. Find the missing number.

10 + 20 +30 = 10 + 15 + ____

a) 20 b) 25

c) 35 d) 30

4. Look at the given pictures.

a) Estimate the total cost of the two objects.

b) Write and solve a number sentence to find the actual total cost.

Unit 3.8

Math Challenges

Exercise

1. Fill in the blanks with the missing numbers.

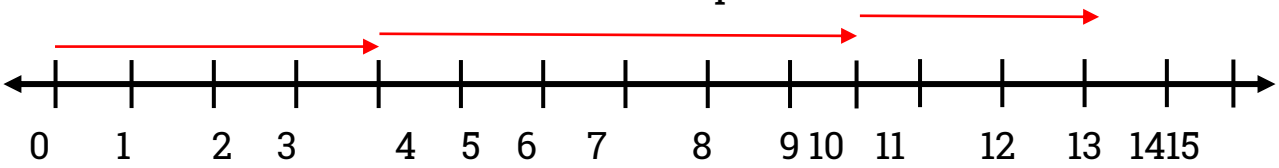
a)

518 + 132 = ____ + 518

b)

(75 + 9) + 6 = 75 + (____+ 6)

2. Which number sentence matches the picture?



a) 4 + 10 = 14

b) 10+ 5 = 15

c) 10 + 3 = 13

d) 4+8 = 12

3. Compare using '>','<', or '='.

a) 95 + 13 ◯ 20 + 87

b) 51 + 42 ◯ 10 + 85

c) 29 + 31 + 15 ◯ 40 + 20 + 10

d) 43 + 34 + 23 ◯ 55 + 28 + 20

4. Tawny saw 31 fish in the first aquarium.
Carla saw 25 fish in the second aquarium.
Jacey saw 14 fish in the third aquarium.
How many fish did they see in all?

Unit 3.8

Math Challenges

Exercise

5. Find each sum using mental math.

a) 85 + 37

b) 152 + 19

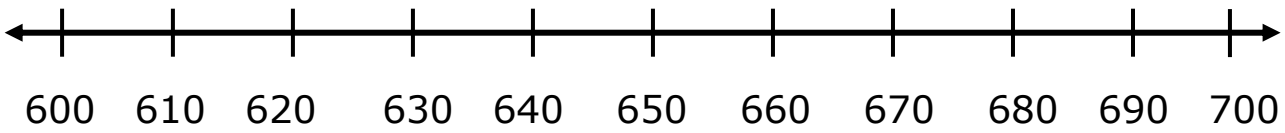
c) 470 + 68

d) 955 + 61

6. There are 832 seats at the stadium. Round the number of seats to the nearest hundred. Explain your answer.

7. A number rounded to the nearest ten is 60. What is the largest actual number that will round to 60?

8. Round 635to the nearest hundred.



Exercise

9. Jeri read 128 pages last week and 182 pages this week. About how many pages did she read in the two weeks?

10. Estimate to decide if each answer is reasonable. Circle 'Yes' or 'No'.

a) 63 + 15 = 70 Yes No

b) 240 + 310 = 500 Yes No

11. At an air show there were 126 airplanes in the sky. If 75 airplanes joined them, how many were in the sky?

Will you add or subtract? _____

There were _____ airplanes in the sky.

12. Add the following.

a)

$$\begin{array}{r} 98 \\ 57 \\ +\ 4 \\ \hline \end{array}$$

b)

67 + 3 + 49 = ____

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.

Next

Grade 3

Answer Key of Lesson 3

Unit 3.1

1. a) 0, identity b) 21, commutative c) 5, associative
   d) 0, identity e) 59, commutative f) 8, associative
   g) 6, associative h) 950, commutative
   i) 401,commutative j) 8, associative
2. 25, associative
3. d
4. yes
5. a) 12+22 b) 12+25 c) 32+25 d) 25+35

Unit 3.2

1. a) 45 b) 85
   c) 91 d) 70
   g) 75 h) 92
2. a) 75 b) 86
   e) 100 f) 64
   i) 91 j) 59
3. 55
4. c
5. 71
6. 94

Unit 3.3

1. a) 3,20,66,69 b) 7,10,92,99 c) 2,10,75,77 d) 4,20,58,62
2. a) 12,53,12,72 b) 4,4,11,91 c) 6,6,23,63 d) 14,3,14,84
3. a) 37 b) 66 c) 92 d) 81
4. 43
5. d
6. 72
7. 52

Unit 3.4

1. a) 30 b) 80 c) 50
   b) 700 c) 400 d) 500
2. a) 300
   e) 200
3. 700 than 600; 700
4. c
5. $500
6. 200

Unit 3.5

1. a) $\begin{array}{r} 40 \\ +\ 30 \\ \hline 70 \end{array}$ b) $\begin{array}{r} 10 \\ +\ 50 \\ \hline 60 \end{array}$ c) $\begin{array}{r} 60 \\ +\ 10 \\ \hline 70 \end{array}$ d) $\begin{array}{r} 50 \\ +\ 40 \\ \hline 90 \end{array}$

   e) $\begin{array}{r} 20 \\ +\ 20 \\ \hline 40 \end{array}$ f) $\begin{array}{r} 80 \\ +10 \\ \hline 90 \end{array}$ g) $\begin{array}{r} 80 \\ +\ 10 \\ \hline 90 \end{array}$ h) $\begin{array}{r} 50 \\ +\ 20 \\ \hline 70 \end{array}$

2. a) $\begin{array}{r} 200 \\ +\ 400 \\ \hline 600 \end{array}$ b) $\begin{array}{r} 500 \\ +\ 100 \\ \hline 600 \end{array}$ c) $\begin{array}{r} 600 \\ +\ 200 \\ \hline 800 \end{array}$ d) $\begin{array}{r} 700 \\ +\ 200 \\ \hline 900 \end{array}$

3. a) $\begin{array}{r} 270 \\ +\ 40 \\ \hline 310 \end{array}$ b) $\begin{array}{r} 550 \\ +\ 70 \\ \hline 620 \end{array}$ c) $\begin{array}{r} 700 \\ +\ 300 \\ \hline 1,000 \end{array}$ d) $\begin{array}{r} 500 \\ +\ 300 \\ \hline 800 \end{array}$

   e) $\begin{array}{r} 600 \\ +\ 300 \\ \hline 900 \end{array}$ f) $\begin{array}{r} 150 \\ +100 \\ \hline 250 \end{array}$

4. $160
5. b
6. $300
7. 700

Grade 3 Answer Key of Lesson 3

Unit 3.6

1. a) 42 b) 60 c) 73 d) 51
   e) 5 f) 8 g) 25
2. 50
3. b
4. 46
5. $80

Unit 3.7

1. a) 103 b) 136 c) 154 d) 96
   e) 90 f) 114 g) 157 h) 154
2. 120
3. c
4. a) 100¢ b) 38¢+64¢=102¢

Unit 3.8

1. a) 132 b) 9
2. c
3. a) > b) < c) > d) <
4. 70
5. a) 122 b) 171 c) 538 d) 1,016
6. 800
7. 64
8. 600
9. about 300
10. a) no b) yes
11. 201; add
12. a) 159 b) 119