

# MATHEMATICS

## WORKBOOK

3A

### Answer Key

Name

KYOIKUDOJINSHA

### 2 Review(1)

1

① 4,905

② 7,300

③ 9,999

2

④ 786

⑤ 724

⑥ 1,300

⑦ 336

⑧ 755

⑨ 507

3

⑩ 2 m 70cm, 270cm

### 3 Review(2)

1

① 15

② 14

③ 36

④ 45

⑤ 28

⑥ 72

2

⑦  $6 \times 4 = 24$ , 24 cream puffs⑧  $24 - 7 = 17$ , 17 cream puffs

3

⑨ B and C

⑩ D and F

### 4 ① Multiplication with 0

1

①  $2 \times 3 = 6$ ②  $1 \times 2 = 2$ ③  $3 \times 0 = 0$ ④  $0 \times 5 = 0$ 

⑤ 8 points

2

⑥ 0

⑦ 0

⑧ 0

⑨ 0

⑩ 0

**5** ② Properties of Multiplication**1**

- ① 4  
② multiplicand  
③  $7 \times 4$

**2**

- ④ 3  
⑤ 8  
⑥ 9  
⑦ 7  
⑧ 3  
⑨ 7  
⑩ 4

**6** ② Properties of Multiplication**1**

- ① 4  
② 10

**2**

- ③ 80  
④ 50  
⑤ 30  
⑥ 90

**2**

- ⑦ 4  
⑧ 4  
⑨ 6  
⑩ 9

**7** ③ Multiplication of Tens and Hundreds**1**

- ① 120                      ② 1000

**2**

- ③ 80                      ④ 180  
⑤ 450                    ⑥ 560  
⑦ 900                    ⑧ 3500  
⑨ 4800                  ⑩ 2000

**8** I. Multiplication**1**

- ① 5                      ② 7  
③ 2                      ④ 1  
⑤ 7                      ⑥ 0

**2**

- ⑦ 0                      ⑧ 160  
⑨ 300                  ⑩ 2800

**3**

- ⑪  $7 \times 6 = 42$   
⑫ 42 candies

**4**

- ⑬  $400 \times 9 = 3600$   
⑭ 3600 yen

**9** ① How to Organize Data



① Favorite Animals

Dog	A	
Cat	B	
Hamster	C	
Rabbit		
Squirrel		
Monkey		

② Favorite Animals

Kind of Animal	Number of People
Dog	D 8
Cat	E 5
Hamster	F 5
Other	6
Total	G 24

③

- ④ Rabbit, Squirrel, Monkey
- ⑤ Dog

**10** ② Bar Graphs



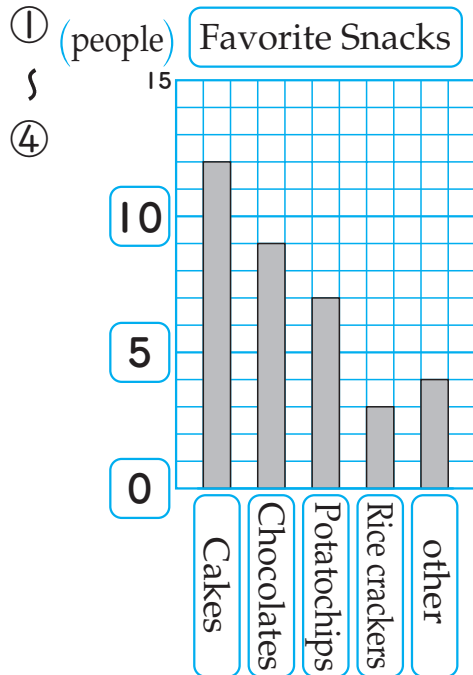
- ① 1
- ② 5
- ③ 12 times
- ④ Jack
- ⑤ 3 times
- ⑥ 7 times

**11** ② Bar Graphs



- ① 2 books
- ② Friday, 22 books
- ③ Tuesday, 7 books
- ④ 74 books
- ②
- ⑤ 10 kg
  - ⑥ 50 kg
  - ⑦ 25 m
  - ⑧ 175 m

**12** ② Bar Graphs



- ⑤ Bar graph

### 13 ③ Tables



Class 1		Class 2		Class 3	
Name of Town	Number of People	Name of Town	Number of People	Name of Town	Number of People
East Town	6	East Town	8	East Town	9
West Town	8	West Town	10	West Town	6
South Town	10	South Town	9	South Town	12
Other	9	Other	7	Other	5
Total	① 33	Total	② 34	Total	③ 32

Research on where people live  
(3rd graders) (number of people)

Names of towns	Class 1	Class 2	Class 3	Total
East Town	6	8	9	④ 23
West Town	8	10	6	⑤ 24
South Town	10	9	12	⑥ 31
Other	9	7	5	⑦ 21
Total	33	34	32	⑧ 99

- ⑨ The total number of third graders
- ⑩ South Town

### 14 3. Addition and Subtraction



- ① 62                      ② 84
- ③ 99                      ④ 69
- ⑤ 90                      ⑥ 80
- ⑦ 92                      ⑧ 84
- ⑨ 91                      ⑩ 71

### 15 3. Addition and Subtraction



- ① 53                      ② 13
- ③ 52                      ④ 32
- ⑤ 49                      ⑥ 46
- ⑦ 24                      ⑧ 27
- ⑨ 19                      ⑩ 8

### 16 ① Calculating How Many for Each Person



- ① 15 ÷ 3
- ② 3
- ③ 5 pieces
- ②
- ④ 32 ÷ 8 = 4
- ⑤ 4 origami papers

**17** ② Calculating for How Many People**1**

- ①  $18 \div 6$
- ② 6
- ③ 3 strawberries

**2**

- ④  $48 \div 8 = 6$
- ⑤ 6 pencils

**18** ② Calculating for How Many People**1**

- ①  $54 \div 6 = 9$
- ② 9 cm

**2**

- ③  $40 \div 5 = 8$
- ④ 8 pieces

**3**

- ⑤  $64 \div 8 = 8$
- ⑥ 8 pieces

**4**

- ⑦  $42 \div 7 = 6$
- ⑧ 6 bunches

**19** ② Calculating for How Many People**1**

- ① 4 children, each child
- ② 4 cookies, how many children

**2**

- ③ 3, 9
- ④ 2, 8
- ⑤ 5, 8
- ⑥ 8, 7
- ⑦ 9, 7
- ⑧ 7, 4

**20** ② Calculating for How Many People**1**

- ①  $6 \div 3 = 2$
- ②  $3 \div 3 = 1$
- ③  $0 \div 3 = 0$

**2**

- ④ 0
- ⑤ 0
- ⑥ 4
- ⑦ 5
- ⑧ 1
- ⑨ 0
- ⑩ 1

**21** ③ Dividing Tens and Hundreds**1**

① 20

② 30

**2**

③ 40

④ 10

⑤ 300

⑥ 100

⑦ 50

⑧ 60

⑨ 300

⑩ 500

**22** 4. Division**1**

① 2

② 6

③ 5

④ 9

⑤ 6

⑥ 3

⑦ 6

⑧ 9

⑨ 5

⑩ 5

⑪ 0

⑫ 1

⑬ 7

⑭ 0

⑮ 3

⑯ 1

**2**⑰  $48 \div 6 = 8$ 

⑱ 8 cherries

**3**⑲  $72 \div 9 = 8$ 

⑳ 8 days

**23** Check(1)**1**

① 0

② 0

③ 180

④ 2800

⑤ 6

⑥ 5

⑦ 7

⑧ 4

⑨ 1

⑩ 0

⑪ 40

⑫ 400

**2**

⑬ 6

⑭ 7

**3**Favorite Sports (3rd graders)  
(number of children)

Sport \ Class	Class 1	Class 2	Class 3	Total
Baseball	15	11	10	36
Basketball	7	8	12	⑮ 27
Football	9	10	8	⑯ 27
Other	3	4	2	⑰ 9
Total	34	⑱ 33	⑲ 32	⑳ 99

⑳ 8 children

**24** 5. Length**1**

① B

② A

**2**

③ 45 cm

④ 1 m 30 cm

⑤ 17 m 70 cm

⑥ 18 m 25 cm

**3**

⑦ R

⑧ T

⑨ T

⑩ R

**25** 5. Length

- ① direct distance  
 ② traveling distance  
 ③  $km$   
 ④  $1300\ m$   
 ⑤  $1500\ m$  ( $600 + 900 = 1500$ )  
 ⑥  $1300\ m$  ( $900 + 400 = 1300$ )  
 ⑦  $500\ m$  ( $600 + 400 = 1000$   
 $1500 - 1000 = 500$ )

**26** 6. Division with Remainders**1**

- ①  $18 \div 5$   
 ② 8  
 ③ 15, 3  
 ④ 20, 2  
 ⑤ 5  
 ⑥ 3 students, 3 pieces

**2**

- ⑦  $\triangle$                       ⑧  $\circ$   
 ⑨  $\triangle$                       ⑩  $\circ$

**27** 6. Division with Remainders**1**

- ① 6 R1  
 ②  $5 \times 6 + 1 = 31$

**2**

- ③ 7 R2,  $3 \times 7 + 2 = 23$   
 ④ 7 R3,  $7 \times 7 + 3 = 52$   
 ⑤ 8 R6,  $9 \times 8 + 6 = 78$   
 ⑥ 7 R1,  $2 \times 7 + 1 = 15$   
 ⑦ 8 R2,  $6 \times 8 + 2 = 50$   
 ⑧ 7 R3,  $4 \times 7 + 3 = 31$   
 ⑨ 8 R4,  $8 \times 8 + 4 = 68$   
 ⑩ 8 R4,  $7 \times 8 + 4 = 60$

**28** 6. Division with Remainders

$$\begin{array}{r} \textcircled{1} \quad \boxed{3} \\ 6 \overline{) 20} \\ \underline{18} \\ \textcircled{2} \quad \boxed{18} \\ \underline{18} \\ \textcircled{3} \quad \boxed{2} \end{array}$$

- ② 
$$\begin{array}{r} 9 \\ 2 \overline{) 19} \\ \underline{18} \\ 1 \end{array}$$
      ③ 
$$\begin{array}{r} 8 \\ 7 \overline{) 62} \\ \underline{56} \\ 6 \end{array}$$
      ④ 
$$\begin{array}{r} 8 \\ 4 \overline{) 35} \\ \underline{32} \\ 3 \end{array}$$
- ⑤ 
$$\begin{array}{r} 4 \\ 9 \overline{) 42} \\ \underline{36} \\ 6 \end{array}$$
      ⑥ 
$$\begin{array}{r} 8 \\ 6 \overline{) 53} \\ \underline{48} \\ 5 \end{array}$$
      ⑦ 
$$\begin{array}{r} 5 \\ 5 \overline{) 28} \\ \underline{25} \\ 3 \end{array}$$
- ⑧ 
$$\begin{array}{r} 7 \\ 7 \overline{) 50} \\ \underline{49} \\ 1 \end{array}$$
      ⑨ 
$$\begin{array}{r} 8 \\ 3 \overline{) 26} \\ \underline{24} \\ 2 \end{array}$$
      ⑩ 
$$\begin{array}{r} 7 \\ 8 \overline{) 61} \\ \underline{56} \\ 5 \end{array}$$

## 29 6. Division with Remainders

1

$$\begin{array}{r} ① \quad 4 \overline{) 23} \\ \underline{20} \phantom{0} \\ 3 \phantom{0} \end{array}$$

$$\begin{array}{r} ② \quad 6 \overline{) 41} \\ \underline{36} \phantom{0} \\ 5 \phantom{0} \end{array}$$

$$\begin{array}{r} ③ \quad 4 \overline{) 38} \\ \underline{36} \phantom{0} \\ 2 \phantom{0} \end{array}$$

$$\begin{array}{r} ④ \quad 9 \overline{) 73} \\ \underline{72} \phantom{0} \\ 1 \phantom{0} \end{array}$$

$$\begin{array}{r} ⑤ \quad 3 \overline{) 20} \\ \underline{18} \phantom{0} \\ 2 \phantom{0} \end{array}$$

$$\begin{array}{r} ⑥ \quad 7 \overline{) 55} \\ \underline{49} \phantom{0} \\ 6 \phantom{0} \end{array}$$

2

$$⑦ \quad 63 \div 8 = 7 \text{ R}7$$

⑧ 7 strawberries, 7 left over

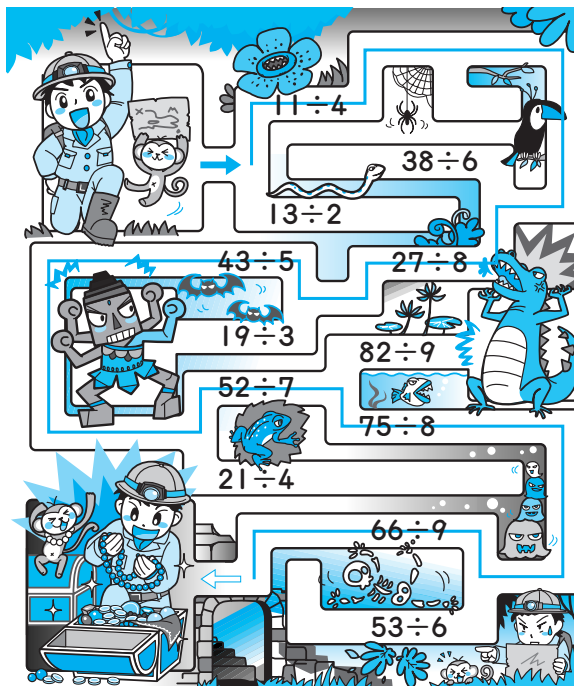
3

$$⑨ \quad 12 + 6 = 18$$

$$18 \div 5 = 3 \text{ R}3$$

⑩ 3 pencils, 3 left over

## 30 Mathematics Land, Division Expedition



## 31 ① Circles

1

① A

② B

2

③ 8 cm

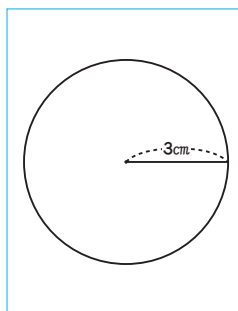
④ D

⑤ 8 cm

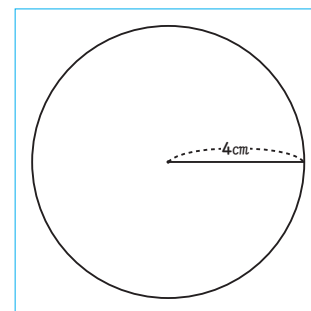
## 32 ① Circles

1

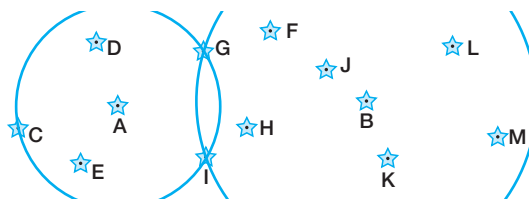
①



②



2



③ C, G, I

④ G, I



**33** ② Spheres**1**

- ① Sphere  
② Circle

**2**

- ③ Circle  
④ 9 cm

**3**

- ⑤  $32 \div 4 = 8$   
 $8 \div 2 = 4$   
4 cm

**34** ① Unit of Measure Used to Express Short Periods of Time**1**

- ① minutes  
② seconds  
③ hours

**2**

- ④ 24 seconds ( $60 - 36 = 24$ )

**3**

- ⑤ 120  
⑥ 95  
⑦ 3  
⑧ 1, 10

**4**

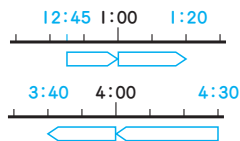
- ⑨ ( 3 minutes, 200 seconds)  
⑩ ( 1 minute and 20 seconds, 110 seconds)

**35** ② How to Find Time and Elapsed Time**1**

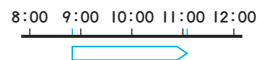
- ① 9 : 20  
② 9 : 50

**2**

- ③ 1 : 20  
④ 3 : 40

**36** ② How to Find Time and Elapsed Time**1**

- ① 20  
② 2 hours and 15 minutes

**2**

- ③ 1 hour and 45 minutes



- ④ 2 hours and 10 minutes



**37** Check(2)**1**

- ① 4 R3                      ② 8 R4  
③ 5 R6                      ④ 3 R8

**2**

⑤  $34 \div 6 = 5 \text{ R}4$   
 $5 + 1 = 6$

⑥ 6 benches

**3**

- ⑦ 1100 m ( $400 + 700 = 1100$ )  
⑧ 1 km 100 m

**4**

- ⑨ 3 : 00  
⑩ 1 hour and 10 minutes

**38** ① How to Express numbers**1**

- ① thousands place  
② 4  
③ Forty-two thousand, three hundred, seventeen

**2**

④ 

3	9	5	6	8
---	---	---	---	---

ones place

⑤ 

7	0	8	2	5
---	---	---	---	---

- ⑥ 82,400  
⑦ 50,030  
⑧ 67,200  
⑨ 49,801  
⑩ 70,070

**39** ① How to Express numbers**1**

- ① hundred thousands place  
② 7  
③ Sixty-Seven million, eight hundred fifty thousand, four hundred thirty-two

**2**

④ 

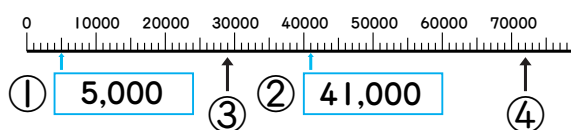
	5	2	4	3	8	7
--	---	---	---	---	---	---

ones place

⑤ 

8	1	9	0	6	4	0	2
---	---	---	---	---	---	---	---

- ⑥ 20,650,090  
⑦ 37,000,000  
⑧ 9,000,000  
⑨ 60,208,000  
⑩ 50,030,700

**40** ① How to Express numbers**1****2**

- ⑤ 40,000    60,000  
⑥ 1,000,000    1,300,000

**3**

- ⑦ 1,000,000  
⑧ 99,999

**4**

⑨ (1089992 990005)

⑩ ((105 ten-thousands) 1015 ten-thousands)

**41** ② Multiplying and Dividing by 10**1**

- ① one, 0  
② one, onec

**2**

- ③ 800, 8000  
④ 230, 2300  
⑤ 5100, 51000  
⑥ 9760, 97600

**3**

- ⑦ 9                      ⑧ 70  
⑨ 35                     ⑩ 68

**42** ③ Addition and Subtraction of Large Numbers**1**

- ① 353                      ② 8270  
③ 13202                  ④ 296  
⑤ 2109                    ⑥ 184

**2**

- ⑦  $9346 - 8056 = 1290$   
⑧ 1290 eggs  
⑨  $8056 + 9346 = 17,402$   
⑩ 17,402 eggs

**43** 9. Large Numbers**1**

- ① 90,067,041  
② 41,850,000  
③ 26,000  
④ 999,999

**2**

- ⑤ 850  
⑥ 27,000  
⑦ 60  
⑧ 93

**3**

- ⑨ =  
⑩ <

**44** Combined Length**1**

- ① A  
② 1 m 75 cm

**2**

- ③  $120 + 75 - 180 = 15$   
④ 15 cm

### 45 Don't be late



### 46 ① Multiplication of 2-digit Number by 1-digit Number

1

$$\begin{array}{r} \textcircled{1} \quad \begin{array}{|c|c|} \hline & 43 \\ \hline \times & 2 \\ \hline & 86 \\ \hline \end{array} \end{array}$$

$$\textcircled{2} \quad \begin{array}{|c|c|} \hline & 14 \\ \hline \times & 2 \\ \hline & 28 \\ \hline \end{array}$$

2

③ 48

④ 62

⑤ 66

⑥ 66

⑦ 48

⑧ 99

⑨ 80

⑩ 60

### 47 ① Multiplication of 2-digit Number by 1-digit Number

1

$$\textcircled{1} \quad \begin{array}{|c|c|} \hline & 27 \\ \hline \times & 3 \\ \hline & 81 \\ \hline \end{array}$$

$$\textcircled{2} \quad \begin{array}{|c|c|} \hline & 18 \\ \hline \times & 5 \\ \hline & 90 \\ \hline \end{array}$$

2

③ 52

④ 92

⑤ 75

⑥ 76

⑦ 68

⑧ 87

⑨ 90

⑩ 90

### 48 ① Multiplication of 2-digit Number by 1-digit Number

1

$$\textcircled{1} \quad \begin{array}{|c|c|} \hline & 38 \\ \hline \times & 7 \\ \hline & 266 \\ \hline \end{array}$$

$$\begin{array}{l} 8 \times 7 = \boxed{56} \\ 30 \times 7 = \boxed{210} \\ \text{Total } \boxed{266} \end{array}$$

$$\textcircled{2} \quad \begin{array}{|c|c|} \hline & 19 \\ \hline \times & 6 \\ \hline & 114 \\ \hline \end{array}$$

$$\begin{array}{l} 9 \times 6 = \boxed{54} \\ 10 \times 6 = \boxed{60} \\ \text{Total } \boxed{114} \end{array}$$

2

③ 126

④ 328

⑤ 666

⑥ 522

⑦ 114

⑧ 102

⑨ 552

⑩ 504

Let's try these!

① 490

② 108

③ 423

④ 602

**49** ① Multiplication of 2-digit Number by 1-digit Number

1

①  $12 \times 3 = 36$

②  $36 \text{ m}$

2

③  $29 \times 3 = 87$

④  $87 \text{ students}$

3

⑤  $45 \times 8 = 360$

⑥  $360 \text{ yen}$

4

⑦  $36 \times 6 = 216$

⑧  $216 \text{ pieces}$

**50** ② Multiplication of 3-digit Number by 1-digit Number

1

①	$\begin{array}{r} 213 \\ \times \quad 3 \\ \hline 639 \end{array}$	$3 \times 3 = 9$ $10 \times 3 = 30$ $200 \times 3 = 600$ Total $639$	②	$\begin{array}{r} 187 \\ \times \quad 4 \\ \hline 748 \end{array}$	$7 \times 4 = 28$ $80 \times 4 = 320$ $100 \times 4 = 400$ Total $748$
---	--	---	---	--	---

2

③  $846$

④  $864$

⑤  $957$

⑥  $648$

⑦  $816$

⑧  $954$

⑨  $852$

⑩  $840$

Let's try these! 

①  $972$

②  $956$

③  $992$

④  $926$

**51** ② Multiplication of 3-digit Number by 1-digit Number

1

①	$\begin{array}{r} 754 \\ \times \quad 6 \\ \hline 4524 \end{array}$	$4 \times 6 = 24$ $50 \times 6 = 300$ $700 \times 6 = 4200$ Total $4524$	②	$\begin{array}{r} 629 \\ \times \quad 4 \\ \hline 2516 \end{array}$	$9 \times 4 = 36$ $20 \times 4 = 80$ $600 \times 4 = 2400$ Total $2516$
---	---	---	---	---	--

2

③  $2769$

④  $3608$

⑤  $3840$

⑥  $5877$

⑦  $804$

⑧  $1113$

⑨  $2508$

⑩  $2322$

Let's try these! 

①  $3128$

②  $2853$

③  $3843$

④  $1176$

**52** ② Multiplication of 3-digit Number by 1-digit Number

1

①  $250 \times 3 = 750$

②  $750 \text{ yen}$

2

③  $775 \times 4 = 3100$

④  $3100 \text{ yen}$

3

⑤  $375 \times 6 = 2250$

⑥  $2250 \text{ m}$

**53** ② Multiplication of 3-digit Number by 1-digit Number**1**

①  $(80 \times 3) \times 2 = 480$  ( 480 yen )

②  $80 \times (3 \times 2) = 480$  ( 480 yen )

**2**

③  $(60 \times 2) \times 4 = 60 \times (2 \times 4)$

④  $(235 \times 3) \times 2 = 235 \times (3 \times 2)$

**3**

⑤  $40 \times (2 \times 2)$       ⑥  $72 \times (3 \times 3)$

$= 40 \times 4$

$= 72 \times 9$

$= 160$

$= 648$

⑦  $120 \times (3 \times 2)$       ⑧  $364 \times (2 \times 4)$

$= 120 \times 6$

$= 364 \times 8$

$= 720$

$= 2912$

**54** I O. Multiplication Algorithm(I)**1**

① 93      ② 92

③ 455      ④ 608

⑤ 579      ⑥ 935      ⑦ 1884

⑧ 6876      ⑨ 2232      ⑩ 1072

**2**

⑪  $69 \times (2 \times 3) = 69 \times 6$

$= 414$

⑫  $375 \times (4 \times 2) = 375 \times 8$

$= 30000$

**55** I O. Multiplication Algorithm(I)**1**

①  $34 \times 6 = 204$

② 204 flowers

**2**

③  $945 \times 7 = 6615$

④ 6615 yen

**3**

⑤  $125 \times 2 \times 3 = 125 \times (2 \times 3)$

$= 125 \times 6$

$= 750$

⑥ 750 yen

**56** Check(3)**1**

① 420,000

② 9,999,999

③ 6300

④ 58

**2**

⑤ 556

⑥ 11161

⑦ 506

⑧ 1010

⑨ 63

⑩ 76

⑪ 441

⑫ 405

⑬ 1116

⑭ 420

⑮ 5586

⑯ 5008