

MATHEMATICS

WORKBOOK

3A

Answer Key

Name

KYOIKU DOJINSHA

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 puffs
⑧ $24 - 7 = 17$, 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 7×4

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

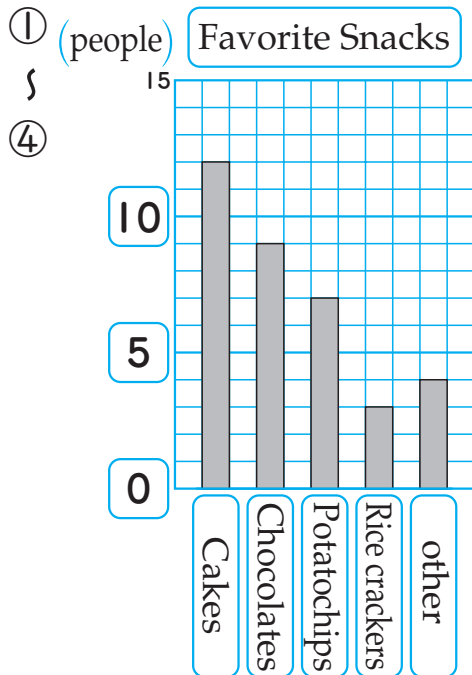
1

- 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
① $15 \div 3$
② 3
③ 5 pieces
②
④ $32 \div 8 = 4$
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

2⑰ $48 \div 6 = 8$

⑱ 8 cherries

3⑲ $72 \div 9 = 8$

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

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

| Sport \ Class | Class 1 | Class 2 | Class 3 | Total |
|---------------|---------|---------|---------|-------|
| Baseball | 15 | 11 | 10 | 36 |
| Basketball | 7 | 8 | 12 | ⑯ 27 |
| Football | 9 | 10 | 8 | ⑰ 27 |
| Other | 3 | 4 | 2 | ⑱ 9 |
| Total | 34 | ⑮ 33 | 32 | ⑲ 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 $1300m$
 ⑤ $1500m$ ($600 + 900 = 1500$)
 ⑥ $1300m$ ($900 + 400 = 1300$)
 ⑦ $500m$ ($600 + 400 = 1000$
 $1500 - 1000 = 500$)

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

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

- 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

$$\begin{array}{r} ① \quad 5 \\ 4 \overline{) 23} \\ \underline{20} \\ 3 \end{array}$$

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

$$\begin{array}{r} ③ \quad 9 \\ 4 \overline{) 38} \\ \underline{36} \\ 2 \end{array}$$

$$\begin{array}{r} ④ \quad 8 \\ 9 \overline{) 73} \\ \underline{72} \\ 1 \end{array}$$

$$\begin{array}{r} ⑤ \quad 6 \\ 3 \overline{) 20} \\ \underline{18} \\ 2 \end{array}$$

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

2

⑦ $63 \div 8 = 7 \text{ R}7$

⑧ 7 strawberries, 7 left over

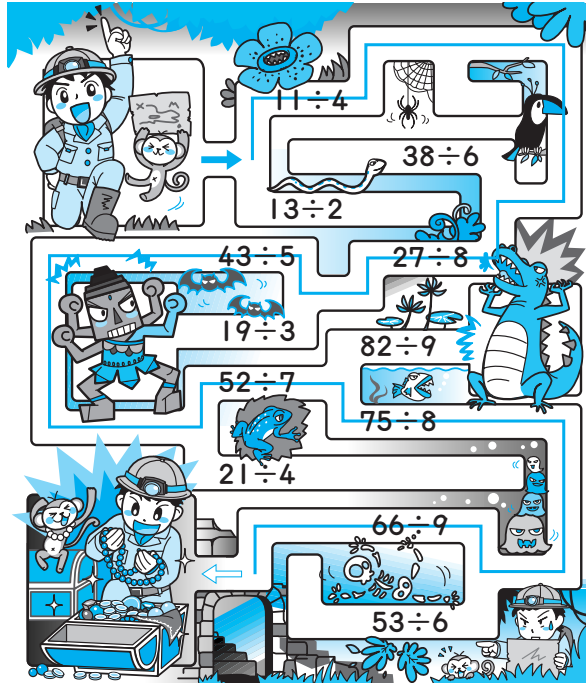
3

⑨ $12 + 6 = 18$

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

⑩ 3 pencils, 3 left over

30 Mathematics Land, Division Expedition



31 ① Circles

1

① A

② B

2

③ 8 cm

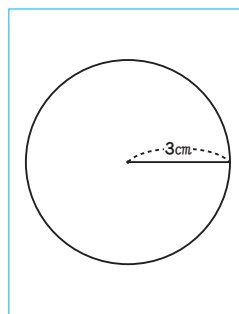
④ D

⑤ 8 cm

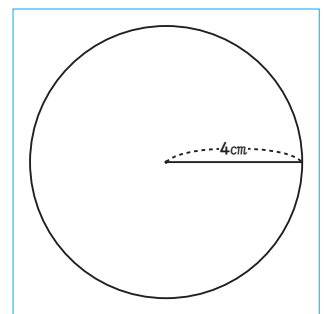
32 ① Circles

1

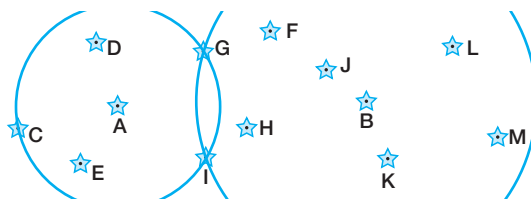
①



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

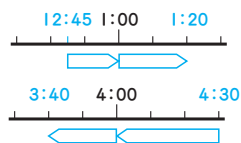
- ⑨ (3 minutes, 200 seconds)
⑩ (1 minute and 20 seconds, 110 seconds)

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

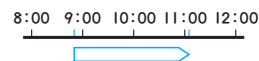
- ① 9 : 20
② 9 : 50

2

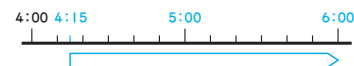
- ③ 1 : 20
④ 3 : 40

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

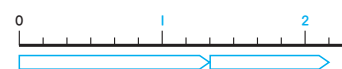
- ① 20
② 2 hours and 15 minutes

**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 |
|---|---|---|---|---|

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

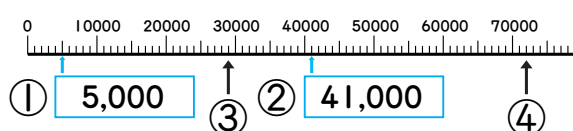
- ④

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

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 ((1105 ten-thousands) 1015 ten-thousands)

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

- ① one, 0
② one, one

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

$$\begin{array}{r} \text{①} \quad \begin{array}{|c|c|c|} \hline & 4 & 3 \\ \hline \times & & 2 \\ \hline & 8 & 6 \\ \hline \end{array} \end{array}$$

$$\text{②} \quad \begin{array}{|c|c|c|} \hline & 1 & 4 \\ \hline \times & & 2 \\ \hline & 2 & 8 \\ \hline \end{array}$$

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

$$\text{①} \quad \begin{array}{|c|c|c|} \hline & 2 & 7 \\ \hline \times & & 3 \\ \hline & 8 & 1 \\ \hline \end{array}$$

$$\text{②} \quad \begin{array}{|c|c|c|} \hline & 1 & 8 \\ \hline \times & & 5 \\ \hline & 9 & 0 \\ \hline \end{array}$$

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

$$\text{①} \quad \begin{array}{|c|c|c|} \hline & 3 & 8 \\ \hline \times & & 7 \\ \hline & 2 & 6 & 6 \\ \hline \end{array}$$

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

$$\text{②} \quad \begin{array}{|c|c|c|} \hline & 1 & 9 \\ \hline \times & & 6 \\ \hline & 1 & 1 & 4 \\ \hline \end{array}$$

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

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 m

2

③ $29 \times 3 = 87$

④ 87 students

3

⑤ $45 \times 8 = 360$

⑥ 360 yen

4

⑦ $36 \times 6 = 216$

⑧ 216 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 yen

2

③ $775 \times 4 = 3100$

④ 3100 yen

3

⑤ $375 \times 6 = 2250$

⑥ 2250 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 $375 \times (4 \times 2) = 375 \times 8$

$= 3000$

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