

MATHEMATICS

WORKBOOK

3B

Answer Key

Name

KYOIKU DOJINSHA

2 ① Isosceles and Equilateral Triangles

1

- ① isosceles
② equilateral

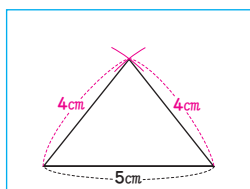
2

- ③ c, f
④ a, d

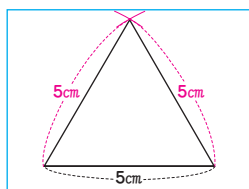
3 ① Isosceles and Equilateral Triangles

1

①



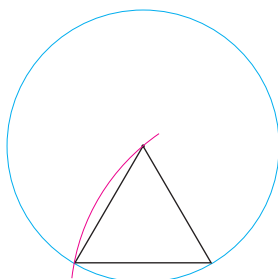
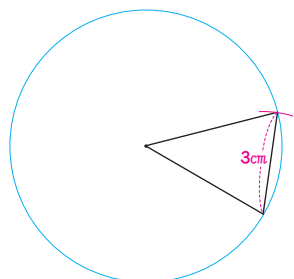
②



2

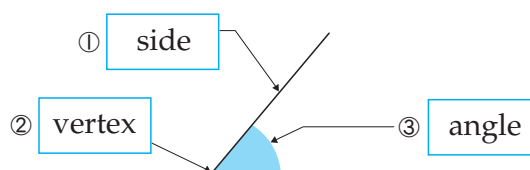
③ (Example)

④ (Example)



4 ② Triangles and Angles

1



2

- ④ isosceles triangle
⑤ 3

3



- ⑥ isosceles triangle
⑦ equilateral triangle
⑧ c

5 | I. Triangles

1

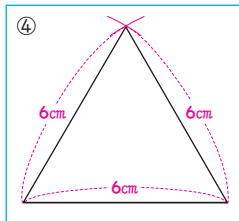
① isosceles triangle

② A, B and C

2

③ (c), (a), (d), (b)

3



6 | ① Division Algorithm(I)



①
$$\begin{array}{r} 14 \\ 4 \overline{)56} \\ \underline{4} \\ 16 \\ \underline{16} \\ 0 \end{array}$$

②
$$\begin{array}{r} 27 \\ 3 \overline{)81} \\ \underline{6} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

③
$$\begin{array}{r} 17 \\ 2 \overline{)34} \\ \underline{2} \\ 14 \\ \underline{14} \\ 0 \end{array}$$

④
$$\begin{array}{r} 16 \\ 4 \overline{)64} \\ \underline{4} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

⑤
$$\begin{array}{r} 25 \\ 3 \overline{)75} \\ \underline{6} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

⑥
$$\begin{array}{r} 17 \\ 5 \overline{)85} \\ \underline{5} \\ 35 \\ \underline{35} \\ 0 \end{array}$$

⑦
$$\begin{array}{r} 24 \\ 4 \overline{)96} \\ \underline{8} \\ 16 \\ \underline{16} \\ 0 \end{array}$$

⑧
$$\begin{array}{r} 13 \\ 6 \overline{)78} \\ \underline{6} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

⑨
$$\begin{array}{r} 12 \\ 5 \overline{)60} \\ \underline{5} \\ 10 \\ \underline{10} \\ 0 \end{array}$$

⑩
$$\begin{array}{r} 15 \\ 6 \overline{)90} \\ \underline{6} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

7 | ① Division Algorithm(I)



①
$$\begin{array}{r} 15 \\ 3 \overline{)47} \\ \underline{3} \\ 17 \\ \underline{15} \\ 2 \end{array}$$

②
$$\begin{array}{r} 29 \\ 2 \overline{)59} \\ \underline{4} \\ 19 \\ \underline{18} \\ 1 \end{array}$$

③
$$\begin{array}{r} 14 \\ 5 \overline{)74} \\ \underline{5} \\ 24 \\ \underline{20} \\ 4 \end{array}$$

④
$$\begin{array}{r} 23 \\ 4 \overline{)95} \\ \underline{8} \\ 15 \\ \underline{12} \\ 3 \end{array}$$

⑤
$$\begin{array}{r} 11 \\ 8 \overline{)93} \\ \underline{8} \\ 13 \\ \underline{8} \\ 5 \end{array}$$

⑥
$$\begin{array}{r} 12 \\ 4 \overline{)51} \\ \underline{4} \\ 11 \\ \underline{8} \\ 3 \end{array}$$

⑦
$$\begin{array}{r} 11 \\ 7 \overline{)78} \\ \underline{7} \\ 8 \\ \underline{7} \\ 1 \end{array}$$

⑧
$$\begin{array}{r} 32 \\ 3 \overline{)96} \\ \underline{9} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

⑨
$$\begin{array}{r} 10 \\ 6 \overline{)64} \\ \underline{6} \\ 4 \\ \underline{0} \\ 4 \end{array}$$

⑩
$$\begin{array}{r} 40 \\ 2 \overline{)80} \\ \underline{8} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

Let's try these! →

- ① 16 R4
- ② 48 R1
- ③ 11 R5
- ④ 11 R3
- ⑤ 10 R2

8 | ① Division Algorithm(I)



①
$$\begin{array}{r} 376 \\ 2 \overline{)753} \\ \underline{6} \\ 15 \\ \underline{14} \\ 13 \\ \underline{12} \\ 1 \end{array}$$

②
$$\begin{array}{r} 133 \\ 4 \overline{)532} \\ \underline{4} \\ 13 \\ \underline{12} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

③
$$\begin{array}{r} 113 \\ 8 \overline{)909} \\ \underline{8} \\ 10 \\ \underline{8} \\ 29 \\ \underline{24} \\ 5 \end{array}$$

④
$$\begin{array}{r} 156 \\ 4 \overline{)625} \\ \underline{4} \\ 22 \\ \underline{20} \\ 25 \\ \underline{24} \\ 1 \end{array}$$

⑤
$$\begin{array}{r} 126 \\ 5 \overline{)631} \\ \underline{5} \\ 13 \\ \underline{10} \\ 31 \\ \underline{30} \\ 1 \end{array}$$

⑥
$$\begin{array}{r} 118 \\ 6 \overline{)712} \\ \underline{6} \\ 11 \\ \underline{6} \\ 52 \\ \underline{48} \\ 4 \end{array}$$

⑦
$$\begin{array}{r} 268 \\ 2 \overline{)536} \\ \underline{4} \\ 13 \\ \underline{12} \\ 16 \\ \underline{16} \\ 0 \end{array}$$

⑧
$$\begin{array}{r} 148 \\ 6 \overline{)888} \\ \underline{6} \\ 28 \\ \underline{24} \\ 48 \\ \underline{48} \\ 0 \end{array}$$

⑨
$$\begin{array}{r} 159 \\ 3 \overline{)477} \\ \underline{3} \\ 17 \\ \underline{15} \\ 27 \\ \underline{27} \\ 0 \end{array}$$

⑩
$$\begin{array}{r} 135 \\ 7 \overline{)945} \\ \underline{7} \\ 24 \\ \underline{21} \\ 35 \\ \underline{35} \\ 0 \end{array}$$

9 ① Division Algorithm (1)



①
$$\begin{array}{r} 215 \\ 3 \overline{)647} \\ \underline{6} \\ 43 \\ \underline{43} \\ 0 \end{array}$$

②
$$\begin{array}{r} 223 \\ 4 \overline{)892} \\ \underline{8} \\ 9 \\ \underline{8} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

③
$$\begin{array}{r} 121 \\ 6 \overline{)728} \\ \underline{6} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

④
$$\begin{array}{r} 244 \\ 2 \overline{)489} \\ \underline{4} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

⑤
$$\begin{array}{r} 120 \\ 7 \overline{)840} \\ \underline{7} \\ 14 \\ \underline{14} \\ 0 \end{array}$$

⑥
$$\begin{array}{r} 120 \\ 4 \overline{)483} \\ \underline{4} \\ 8 \\ \underline{8} \\ 3 \\ \underline{3} \\ 0 \end{array}$$

⑦
$$\begin{array}{r} 307 \\ 3 \overline{)921} \\ \underline{9} \\ 20 \\ \underline{21} \\ 1 \end{array}$$

⑧
$$\begin{array}{r} 109 \\ 9 \overline{)987} \\ \underline{9} \\ 87 \\ \underline{81} \\ 6 \end{array}$$

⑨
$$\begin{array}{r} 1493 \\ 5 \overline{)7468} \\ \underline{5} \\ 24 \\ \underline{20} \\ 46 \\ \underline{45} \\ 18 \\ \underline{15} \\ 3 \end{array}$$

⑩
$$\begin{array}{r} 1293 \\ 4 \overline{)5172} \\ \underline{4} \\ 11 \\ \underline{8} \\ 37 \\ \underline{36} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

Let's try these!

- ① 321 R2
- ② 141 R1
- ③ 101 R5
- ④ 403
- ⑤ 1067 R1

10 ① Division Algorithm (1)



- ① $76 \div 4 = 19$
- ② 19 pencils
- ③ $98 \div 5 = 19 \text{ R}3$
 $19 + 1 = 20$
- ④ 20 days
- ③
- ⑤ $835 \div 4 = 208 \text{ R}3$
- ⑥ 208 people will get drawing paper, with 3 sheets will be left.

11 ② Division Algorithm (2)



①
$$\begin{array}{r} 43 \\ 6 \overline{)259} \\ \underline{24} \\ 19 \\ \underline{18} \\ 1 \end{array}$$

②
$$\begin{array}{r} 70 \\ 3 \overline{)211} \\ \underline{21} \\ 1 \\ \underline{1} \\ 0 \end{array}$$

③
$$\begin{array}{r} 86 \\ 7 \overline{)604} \\ \underline{56} \\ 44 \\ \underline{42} \\ 2 \end{array}$$

④
$$\begin{array}{r} 79 \\ 2 \overline{)158} \\ \underline{14} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

⑤
$$\begin{array}{r} 92 \\ 3 \overline{)277} \\ \underline{27} \\ 7 \\ \underline{6} \\ 1 \end{array}$$

⑥
$$\begin{array}{r} 41 \\ 6 \overline{)246} \\ \underline{24} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

⑦
$$\begin{array}{r} 40 \\ 7 \overline{)285} \\ \underline{28} \\ 5 \\ \underline{5} \\ 0 \end{array}$$

⑧
$$\begin{array}{r} 90 \\ 5 \overline{)450} \\ \underline{45} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

⑨
$$\begin{array}{r} 889 \\ 8 \overline{)8006} \\ \underline{72} \\ 80 \\ \underline{72} \\ 86 \\ \underline{81} \\ 5 \end{array}$$

⑩
$$\begin{array}{r} 650 \\ 4 \overline{)2600} \\ \underline{24} \\ 20 \\ \underline{20} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

12 ② Division Algorithm (2)



①
$$\begin{array}{r} 260 \\ 3 \overline{)782} \\ \underline{6} \\ 18 \\ \underline{18} \\ 0 \\ \underline{0} \\ 2 \end{array}$$

②
$$\begin{array}{r} 207 \\ 7 \overline{)1454} \\ \underline{14} \\ 54 \\ \underline{49} \\ 5 \end{array}$$

③
$$\begin{array}{r} 120 \\ 4 \overline{)483} \\ \underline{4} \\ 8 \\ \underline{8} \\ 3 \end{array}$$

④
$$\begin{array}{r} 150 \\ 5 \overline{)750} \\ \underline{5} \\ 25 \\ \underline{25} \\ 0 \end{array}$$

⑤
$$\begin{array}{r} 30 \\ 8 \overline{)247} \\ \underline{24} \\ 7 \end{array}$$

⑥
$$\begin{array}{r} 420 \\ 9 \overline{)3781} \\ \underline{36} \\ 18 \\ \underline{18} \\ 1 \end{array}$$

⑦
$$\begin{array}{r} 104 \\ 6 \overline{)626} \\ \underline{6} \\ 26 \\ \underline{24} \\ 2 \end{array}$$

⑧
$$\begin{array}{r} 407 \\ 2 \overline{)814} \\ \underline{8} \\ 14 \\ \underline{14} \\ 0 \end{array}$$

⑨
$$\begin{array}{r} 100 \\ 7 \overline{)706} \\ \underline{7} \\ 6 \end{array}$$

⑩
$$\begin{array}{r} 2006 \\ 3 \overline{)6018} \\ \underline{6} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

13 ② Division Algorithm(2)**1**

① a $25 \times 3 = 75$ b $75 \div 5 = 15$

$25 \times 3 \div 5 = 15$

② a $25 \div 5 = 5$ b $5 \times 3 = 15$

$(25 \div 5 \times 3) = 15$

2

③ 27

④ 4

3

⑤ $32 \times 3 \div 8 = 12$

⑥ 12 students

14 ② Division Algorithm(2)**1**

① $192 \div 6 = 32$

② 32 students

2

③ $1126 \div 6 = 187 \text{ R}4$

$187 + 1 = 188$

④ 188 boxes

3

⑤ $420 \div 3 \div 4 = 35$

⑥ 35 bags

15 ③ How Many Times as Big**1**

① $36 \div 9 = 4$

② 4 times

2

③ $56 \div 8 = 7$

④ 7 times

3

⑤ $35 \div 7 = 5$

⑥ 5 times

16 ④ Mental Calculation**1**

① $60 \div 3 = 20$

② $12 \div 3 = 4$

The total is: 24

2

③ 22

④ 23

⑤ 17

⑥ 52

⑦ 123

⑧ 140

⑨ 210

⑩ 1300

17 | 2. Division Algorithm



$$\begin{array}{r} ① \quad 4 \overline{) 18} \\ \underline{4} \\ 3 \\ \underline{3} \\ 0 \end{array}$$

$$\begin{array}{r} ② \quad 3 \overline{) 32} \\ \underline{9} \\ 7 \\ \underline{6} \\ 1 \end{array}$$

$$\begin{array}{r} ③ \quad 4 \overline{) 20} \\ \underline{8} \\ 8 \\ \underline{8} \\ 3 \end{array}$$

$$\begin{array}{r} ④ \quad 6 \overline{) 136} \\ \underline{6} \\ 2 \\ \underline{1} \\ 3 \\ \underline{3} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

$$\begin{array}{r} ⑤ \quad 3 \overline{) 206} \\ \underline{6} \\ 1 \\ \underline{1} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

$$\begin{array}{r} ⑥ \quad 9 \overline{) 63} \\ \underline{5} \\ 1 \\ \underline{9} \\ 2 \\ \underline{2} \\ 5 \end{array}$$

$$\begin{array}{r} ⑦ \quad 8 \overline{) 812} \\ \underline{6} \\ 1 \\ \underline{8} \\ 2 \\ \underline{1} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

$$\begin{array}{r} ⑧ \quad 4 \overline{) 2002} \\ \underline{8} \\ 8 \\ \underline{8} \\ 0 \\ \underline{0} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

$$⑨ \quad 21$$

$$⑩ \quad 144$$

18 | 2. Division Algorithm

1

$$① \quad 78 \div 3 = 26$$

$$② \quad 26 \text{ cm}$$

2

$$③ \quad 318 \div 5 = 63 \text{ R}3$$

④ We will fill 63 bottles, and there will be 3 dl of juice left.

3

$$⑤ \quad 12 \times 6 \div 8 = 9$$

$$⑥ \quad 9 \text{ times}$$

19 What Computation Should We Use?



$$① \quad 24 \times 8 = 192$$

192 pictures

$$② \quad 145 - 125 = 20$$

20 m

$$③ \quad 285 \div 5 = 57$$

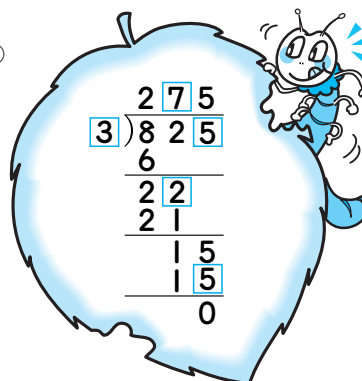
57 m

$$④ \quad 3600 \div 8 = 450$$

450 yen

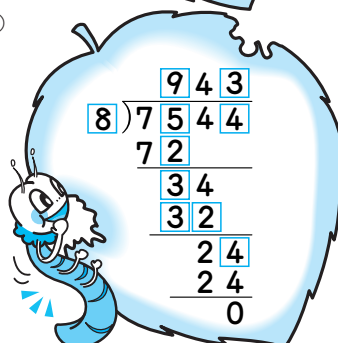
20 Missing Digits Calculation

①



$$\begin{array}{r} 2 5 \\ 3 \overline{) 825} \\ \underline{6} \\ 2 \\ \underline{2} \\ 1 \\ \underline{1} \\ 0 \end{array}$$

②



$$\begin{array}{r} 9 3 \\ 8 \overline{) 7544} \\ \underline{7} \\ 3 \\ \underline{3} \\ 2 \\ \underline{2} \\ 0 \end{array}$$

21 ① How to Express Fractional Parts**1**

- ① 1.7 ℓ ② 0.8 ℓ

2

- ③ 8
-
- ④ 1
-
- ⑤ 8
-
- ⑥ 0.1

3

- ⑦ 0.4cm ⑧ 3.6cm
-
- ⑨ 7.2cm ⑩ 11.9cm

22 ① The Decimal Number System**1**

- ① 0.8cm
-
- ② 2.3cm ③ 3.7cm

2

- ④ 3.4
-
- ⑤ 4.9
-
- ⑥ 9.2
-
- ⑦ 1.6

3

- ⑧ (0.3 (0.9)) ⑨ ((4) 3.5)
-
- ⑩ ((6.2) 5.8)

23 ③ Addition and Subtraction of Decimal Numbers**1**

$$\left. \begin{array}{l} \cdot 0.2 \dots \boxed{2} \text{ 0.1's} \\ \cdot 0.6 \dots \boxed{6} \text{ 0.1's} \end{array} \right\} \text{ Therefore, the answer is } \overset{\textcircled{1}}{\boxed{0.8}} .$$

2

- ② 0.5 ③ 0.9
-
- ④ 1.7 ⑤ 1.8
-
- ⑥ 2.5 ⑦ 7.9
-
- ⑧ 1 ⑨ 1.3
-
- ⑩ 1.3

24 ③ Addition and Subtraction of Decimal Numbers**1**

$$\left. \begin{array}{l} \cdot 0.9 \dots \boxed{9} \text{ 0.1's} \\ \cdot 0.5 \dots \boxed{5} \text{ 0.1's} \end{array} \right\} \text{ Therefore, the answer is } \overset{\textcircled{1}}{\boxed{0.4}} .$$

2

- ② 0.3 ③ 0.1
-
- ④ 1.2 ⑤ 2.1
-
- ⑥ 4.6 ⑦ 0.7
-
- ⑧ 0.4 ⑨ 0.6
-
- ⑩ 0.6

25 ③ Addition and Subtraction of Decimal Numbers**1**

- ① $0.6 + 0.8 = 1.4$
 ② 1.4ℓ

2

- ③ $1.8 - 0.6 = 1.2$
 ④ 1.2 dl

3

- ⑤ $0.6 + 0.4 - 0.8 = 0.2$
 ⑥ 0.2ℓ

26 13. Decimal Numbers**1**

- ① 0.7
 ② 4.8
 ③ 2.6
 ④ 4.7

2

- ⑤ $3.7 - 3.8 - \boxed{3.9} - \boxed{4} - 4.1 - 4.2$
 ⑥ $0 - 0.2 - 0.4 - \boxed{0.6} - \boxed{0.8} - 1 - 1.2$

3

- ⑦ 2.8 ⑧ 1.5
 ⑨ 1.6 ⑩ 0.8

27 ① Comparing Weights**1**

- ① stapler is heavier by 25 1-yen coins.



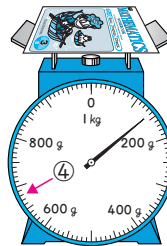
- ② 25 g ③ 50 g

2

- ④ 5 g
 ⑤ 100 g
 ⑥ 48 g

28 ② Using a Scale to Weigh**1**

- ① 10 g
 ② 1000 g, 1 kg
 ③ 140 g
 ④

**2**

- ⑤ 3000 ⑥ 6300
 ⑦ 2040 ⑧ 4
 ⑨ 3, 740
 ⑩ 7, 90

29 ② Using a Scale to Weigh**1**

- ① 120 ② 980 ③ 860

2

④ $820 - 250 = 570$

⑤ 570 g

3

⑥ $600 \times 3 = 1800$

$1800 \text{ g} = 1 \text{ kg } 800 \text{ g}$

⑦ 1 kg 800 g

30 14. Weight**1**

① 2 kg

② 10 g

③ 1 kg 150 g

2

④ 9000

⑤ 7800

⑥ 5, 30

3

⑦ $1 \text{ kg } 700 \text{ g} - 400 \text{ g} = 1 \text{ kg } 300 \text{ g}$

⑧ 1 kg 300 g

31 Check(4)**1**

①
$$\begin{array}{r} 376 \\ 2 \overline{)753} \\ \underline{6} \\ 15 \\ \underline{14} \\ 13 \\ \underline{12} \\ 1 \end{array}$$

②
$$\begin{array}{r} 103 \\ 5 \overline{)518} \\ \underline{5} \\ 18 \\ \underline{15} \\ 3 \end{array}$$

③
$$\begin{array}{r} 703 \\ 8 \overline{)5624} \\ \underline{56} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

④ 63

⑤ 8

⑥ 1.4

⑦ 0.4

2

⑧ $90 \times 8 = 720$

$130 + 720 = 850$

⑨ 850 g

32 ① Multiplication by Tens**1**

① $8 \times 20 = (8 \times \boxed{2}) \times 10 = \boxed{160}$

② 10, one

2

③ 40

④ 90

⑤ 360

⑥ 420

⑦ 640

⑧ 200

3

⑨ $6 \times 20 = 120$

⑩ 120 apples

33 ① Multiplication by Tens

1

① $16 \times 40 = (16 \times 4) \times 10 = 640$

② 10, one, 1800

2

- ③ 520 ④ 1300
 ⑤ 1920 ⑥ 600
 ⑦ 7200 ⑧ 1000

3

- ⑨ $16 \times 50 = 800$
 ⑩ 800 cards

34 ② Multiplication by a Two-digit Number



①
$$\begin{array}{r} 31 \\ \times 12 \\ \hline 62 \\ 31 \\ \hline 372 \end{array}$$

②
$$\begin{array}{r} 14 \\ \times 23 \\ \hline 42 \\ 28 \\ \hline 322 \end{array}$$

③
$$\begin{array}{r} 21 \\ \times 42 \\ \hline 42 \\ 84 \\ \hline 882 \end{array}$$

④
$$\begin{array}{r} 30 \\ \times 13 \\ \hline 90 \\ 30 \\ \hline 390 \end{array}$$

⑤
$$\begin{array}{r} 23 \\ \times 33 \\ \hline 69 \\ 69 \\ \hline 759 \end{array}$$

⑥
$$\begin{array}{r} 11 \\ \times 59 \\ \hline 99 \\ 55 \\ \hline 649 \end{array}$$

⑦
$$\begin{array}{r} 24 \\ \times 14 \\ \hline 96 \\ 24 \\ \hline 336 \end{array}$$

⑧
$$\begin{array}{r} 38 \\ \times 22 \\ \hline 76 \\ 76 \\ \hline 836 \end{array}$$

⑨
$$\begin{array}{r} 19 \\ \times 32 \\ \hline 38 \\ 57 \\ \hline 608 \end{array}$$

⑩
$$\begin{array}{r} 15 \\ \times 56 \\ \hline 90 \\ 75 \\ \hline 840 \end{array}$$

Let's try these!

- ① 276
- ② 455
- ③ 544
- ④ 588
- ⑤ 621

35 ② Multiplication by a Two-digit Number



①
$$\begin{array}{r} 32 \\ \times 28 \\ \hline 256 \\ 64 \\ \hline 896 \end{array}$$

②
$$\begin{array}{r} 73 \\ \times 94 \\ \hline 292 \\ 657 \\ \hline 6862 \end{array}$$

③
$$\begin{array}{r} 24 \\ \times 38 \\ \hline 192 \\ 72 \\ \hline 912 \end{array}$$

④
$$\begin{array}{r} 43 \\ \times 18 \\ \hline 344 \\ 43 \\ \hline 774 \end{array}$$

⑤
$$\begin{array}{r} 29 \\ \times 43 \\ \hline 87 \\ 116 \\ \hline 1247 \end{array}$$

⑥
$$\begin{array}{r} 42 \\ \times 62 \\ \hline 84 \\ 252 \\ \hline 2604 \end{array}$$

⑦
$$\begin{array}{r} 53 \\ \times 27 \\ \hline 371 \\ 106 \\ \hline 1431 \end{array}$$

⑧
$$\begin{array}{r} 46 \\ \times 85 \\ \hline 230 \\ 368 \\ \hline 3910 \end{array}$$

⑨
$$\begin{array}{r} 97 \\ \times 32 \\ \hline 194 \\ 291 \\ \hline 3104 \end{array}$$

⑩
$$\begin{array}{r} 84 \\ \times 76 \\ \hline 504 \\ 588 \\ \hline 6384 \end{array}$$

Let's try these!

- ① 972
- ② 2808
- ③ 2158
- ④ 2538
- ⑤ 3237

36 ② Multiplication by a Two-digit Number

1

①
$$\begin{array}{r} 17 \\ \times 50 \\ \hline 850 \\ \hline 17 \times 5 \quad 17 \times 0 \end{array}$$

②
$$\begin{array}{r} 26 \\ \times 3 \\ \hline 78 \end{array}$$

2

③
$$\begin{array}{r} 48 \\ \times 20 \\ \hline 960 \end{array}$$

④
$$\begin{array}{r} 36 \\ \times 40 \\ \hline 1440 \end{array}$$

⑤
$$\begin{array}{r} 67 \\ \times 30 \\ \hline 2010 \end{array}$$

⑥
$$\begin{array}{r} 16 \\ \times 8 \\ \hline 128 \end{array}$$

⑦
$$\begin{array}{r} 25 \\ \times 9 \\ \hline 225 \end{array}$$

⑧
$$\begin{array}{r} 83 \\ \times 2 \\ \hline 166 \end{array}$$

⑨
$$\begin{array}{r} 69 \\ \times 4 \\ \hline 276 \end{array}$$

⑩
$$\begin{array}{r} 58 \\ \times 70 \\ \hline 4060 \end{array}$$

37 ② Multiplication by a Two-digit Number



$$\begin{array}{r} \textcircled{1} \quad \begin{array}{r} 132 \\ \times 12 \\ \hline 264 \\ 132 \\ \hline 1584 \end{array} \end{array}$$

$$\textcircled{2} \quad \begin{array}{r} 473 \\ \times 38 \\ \hline 3784 \\ 1419 \\ \hline 17974 \end{array}$$

$$\textcircled{3} \quad \begin{array}{r} 324 \\ \times 32 \\ \hline 648 \\ 972 \\ \hline 10368 \end{array}$$

$$\textcircled{4} \quad \begin{array}{r} 226 \\ \times 26 \\ \hline 1356 \\ 452 \\ \hline 5876 \end{array}$$

$$\textcircled{5} \quad \begin{array}{r} 246 \\ \times 83 \\ \hline 738 \\ 1968 \\ \hline 20418 \end{array}$$

$$\textcircled{6} \quad \begin{array}{r} 825 \\ \times 34 \\ \hline 3300 \\ 2475 \\ \hline 28050 \end{array}$$

$$\textcircled{7} \quad \begin{array}{r} 719 \\ \times 94 \\ \hline 2876 \\ 6471 \\ \hline 67586 \end{array}$$

$$\textcircled{8} \quad \begin{array}{r} 308 \\ \times 52 \\ \hline 616 \\ 1540 \\ \hline 16016 \end{array}$$

$$\textcircled{9} \quad \begin{array}{r} 503 \\ \times 83 \\ \hline 1509 \\ 4024 \\ \hline 41749 \end{array}$$

$$\textcircled{10} \quad \begin{array}{r} 600 \\ \times 60 \\ \hline 36000 \end{array}$$

Let's try these! ▶

- ① 11676
- ② 13067
- ③ 25795
- ④ 37080
- ⑤ 35400

38 ② Multiplication by a Two-digit Number

①

$$\textcircled{1} \quad 43 \times 21 = 903$$

$$\textcircled{2} \quad 903 \text{ g}$$

②

$$\textcircled{3} \quad 85 \times 28 = 2380$$

$$\textcircled{4} \quad 2380 \text{ yen}$$

③

$$\textcircled{5} \quad 8 \times 65 = 520$$

$$\textcircled{6} \quad 520 \text{ sheets}$$

④

$$\textcircled{7} \quad 190 \times 15 = 2850$$

$$3000 - 2850 = 150$$

$$\textcircled{8} \quad 150 \text{ m}$$

39 ③ Mental Calculation



① 81

$$\begin{array}{r} 27 \times 3 \\ \begin{array}{r} 20 \quad 7 \\ 20 \times 3 = 60 \\ 7 \times 3 = 21 \\ \hline \text{Altogether } 81 \end{array} \end{array}$$

② 72

$$\begin{array}{r} 2 \times 36 \\ \begin{array}{r} 30 \quad 6 \\ 2 \times 30 = 60 \\ 2 \times 6 = 12 \\ \hline \text{Altogether } 72 \end{array} \end{array}$$

③ 86

④ 90

⑤ 76

⑥ 96

⑦ 640

⑧ 840

⑨ 840

⑩ 750

40 15. Multiplication Algorithm(2)



① 540

② 850

$$\textcircled{3} \quad \begin{array}{r} 12 \\ \times 33 \\ \hline 36 \\ 36 \\ \hline 396 \end{array}$$

$$\textcircled{4} \quad \begin{array}{r} 24 \\ \times 32 \\ \hline 48 \\ 72 \\ \hline 768 \end{array}$$

$$\textcircled{5} \quad \begin{array}{r} 69 \\ \times 14 \\ \hline 276 \\ 69 \\ \hline 966 \end{array}$$

$$\textcircled{6} \quad \begin{array}{r} 28 \\ \times 73 \\ \hline 84 \\ 196 \\ \hline 2044 \end{array}$$

$$\textcircled{7} \quad \begin{array}{r} 57 \\ \times 48 \\ \hline 456 \\ 228 \\ \hline 2736 \end{array}$$

$$\textcircled{8} \quad \begin{array}{r} 93 \\ \times 64 \\ \hline 372 \\ 558 \\ \hline 5952 \end{array}$$

$$\textcircled{9} \quad \begin{array}{r} 32 \\ \times 80 \\ \hline 2560 \end{array}$$

$$\textcircled{10} \quad \begin{array}{r} 493 \\ \times 27 \\ \hline 3451 \\ 986 \\ \hline 13311 \end{array}$$

$$\textcircled{11} \quad \begin{array}{r} 608 \\ \times 45 \\ \hline 3040 \\ 2432 \\ \hline 27360 \end{array}$$

41 15. Multiplication Algorithm(2)**1**

① $45 \times 16 = 720$

② 720 cranes

2

③ $6 \times 37 = 222$

④ 222 sheets

3

⑤ $126 \times 20 = 2520$

⑥ 2520 yen

42 🏆 The Race**1**

① $6 - 1 = 5$

$18 \times 5 = 90$

② 90 m

2

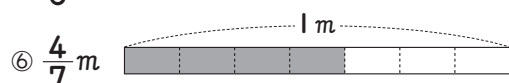
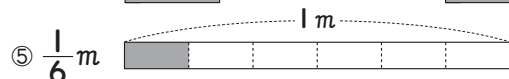
③ $4 \times 8 = 32$

④ 32 m

43 ① How to Express Fraction Parts**1**

① $\frac{1}{2} m$

② $\frac{3}{4} m$

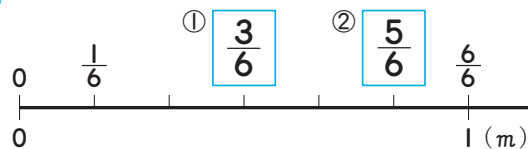
2**3**

⑦ 5

⑧ 1

⑨ 8

⑩ 3

44 ② The Size of Fractions**1**

③ $\frac{4}{6}$

④ $\frac{5}{6}$

⑤ 2

⑥ $\frac{1}{9}$

⑦ 8

2

⑧ 0.2

⑨ 0.6

⑩ 0.9

45 ② The Size of Fractions**1**

$$\textcircled{1} \frac{3}{7} + \frac{1}{7} = \frac{4}{7}$$

$$\frac{1}{7} \times 3 \quad \frac{1}{7} \times 1 \quad \frac{1}{7} \times (3 + 1)$$

2

- ② $\frac{2}{3}$ ③ $\frac{3}{4}$
 ④ $\frac{5}{6}$ ⑤ $\frac{7}{8}$
 ⑥ $1\left(\frac{5}{5}\right)$ ⑦ $1\left(\frac{9}{9}\right)$

3

- ⑧ $\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$
 ⑨ $\frac{6}{7} \ell$

46 ② The Size of Fractions**1**

- ① $\frac{4}{7}$
 ② $\frac{4}{5}$
 ③ $\frac{1}{3}$ ④ $\frac{2}{5}$
 ⑤ $\frac{5}{8}$ ⑥ $\frac{1}{9}$
 ⑦ $\frac{3}{4}$ ⑧ $\frac{3}{7}$

2

- ⑨ $\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$
 ⑩ $\frac{3}{6} m$

47 16. Fractions**1**

- ① $\frac{5}{9} \ell$
 ② $\frac{3}{4} km$

2

- ③ $\left(\frac{1}{9}\left(\frac{8}{9}\right)\right)$ ④ $\left(\frac{2}{3}\left(1\right)\right)$

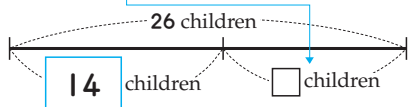
3

- ⑤ $\frac{7}{8}$ ⑥ $1\left(\frac{4}{4}\right)$
 ⑦ $\frac{1}{6}$ ⑧ $\frac{3}{10}$

4

- ⑨ $\frac{1}{8} + \frac{7}{8} = \frac{8}{8} = 1$ 1ℓ
 ⑩ $\frac{7}{8} - \frac{1}{8} = \frac{6}{8}$ $\frac{6}{8} \ell$

48 17. Math Sentences with \square **1**

- ① $14 + \square = 26$
Number of children who joined later
 ② 
 A horizontal number line with a bracket above it labeled "26 children". Below the line, there is a box containing "14 children" and another box containing "children". A dashed line connects the end of the "14 children" box to the end of the "26 children" bracket, and another dashed line connects the end of the "children" box to the same point. This indicates that the number of children in the second box plus 14 equals 26.

2

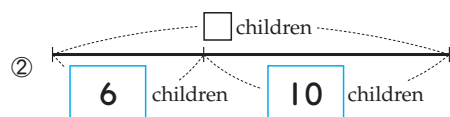
- ③ $80 + \square = 620$
 ④ $540 g$

3

- ⑤ $86 + \square = 200$
 ⑥ 114

49 17. Math Sentences with \square **1**

① $\square - 6 = 10$

**2**

③ $\square - 670 = 280$

④ 950m

3

⑤ $\square - 52 = 128$

⑥ 180

50 17. Math Sentences with \square **1**

① $\square \times 5 = 30$

② 6 cards

2

③ $\square \times 6 = 420$

④ 70 g

3

⑤ $\square \times 8 = 176$

⑥ 22

51 17. Math Sentences with \square **1**

① 58

② 78

③ 100

④ 211

⑤ 8

⑥ 21

2

⑦ $25 + \square = 52$

⑧ 27 roses



⑨ $\square - 85 = 75$

⑩ 160cm

52 ♦ Abacus**1**

① fixed point

② 5-bead

③ rod

④ 1-bead

2

⑤ 1, 5

⑥ ones place

3

⑦ 243 ⑧ 157 ⑨ 809 ⑩ 680

53 ◆ **Abacus****1**


- ① 2
② 5-bead

③ 2
④ 1-beads

2

- ⑤ 49 ⑥ 62
⑦ 6 ⑧ 76
⑨ 4 ⑩ 645

54 ◆ **Abacus****1**

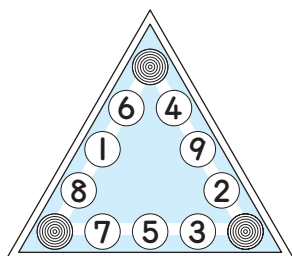
- ① 5-bead (in the ones place)
② a 1-bead (in the tens place)

③ 1-bead (in the tens place)
④ a 1-bead (in the ones place)

2

- ⑤ 10 ⑥ 71
⑦ 7 ⑧ 19
⑨ 12 ⑩ 67

55 **Magic Square**

① Answers may vary. For example,



② Answers may vary. For example,

6	1	8
7	5	3
2	9	4

56 **Check(5)****1**

- ①
$$\begin{array}{r} 31 \\ \times 23 \\ \hline 93 \\ 62 \\ \hline 713 \end{array}$$
 ②
$$\begin{array}{r} 25 \\ \times 37 \\ \hline 175 \\ 75 \\ \hline 925 \end{array}$$
 ③
$$\begin{array}{r} 42 \\ \times 62 \\ \hline 84 \\ 252 \\ \hline 2604 \end{array}$$
- ④
$$\begin{array}{r} 47 \\ \times 30 \\ \hline 1410 \end{array}$$
 ⑤
$$\begin{array}{r} 362 \\ \times 54 \\ \hline 1448 \\ 1810 \\ \hline 19548 \end{array}$$
 ⑥
$$\begin{array}{r} 709 \\ \times 82 \\ \hline 1418 \\ 5672 \\ \hline 58138 \end{array}$$

- ⑦ $1\left(\frac{6}{6}\right)$ ⑧ $\frac{3}{9}$

2

- ⑨ $\square \times 4 = 36$
⑩ 9 years old

3

- ⑪ 381 ⑫ 181

57 Numbers**1**

- ① 7
 ② 390
 ③ 4,000,500
 ④ 6.4
 ⑤ seven
 ⑥ seven
 ⑦ seven
 ⑧ $\frac{5}{6}$

2

- ⑨ $3.1 \rightarrow 1.8 \rightarrow 1.4 \rightarrow 0.9 \rightarrow \frac{5}{10}$

58 Multiplication**1**

- ①
$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$
 ②
$$\begin{array}{r} 56 \\ \times 9 \\ \hline 504 \end{array}$$
 ③
$$\begin{array}{r} 754 \\ \times 7 \\ \hline 5278 \end{array}$$
- ④
$$\begin{array}{r} 84 \\ \times 37 \\ \hline 588 \\ 252 \\ \hline 3108 \end{array}$$
 ⑤
$$\begin{array}{r} 24 \\ \times 99 \\ \hline 216 \\ 216 \\ \hline 2376 \end{array}$$
 ⑥
$$\begin{array}{r} 45 \\ \times 60 \\ \hline 2700 \end{array}$$
- ⑦
$$\begin{array}{r} 387 \\ \times 46 \\ \hline 2322 \\ 1548 \\ \hline 17802 \end{array}$$
 ⑧
$$\begin{array}{r} 605 \\ \times 34 \\ \hline 2420 \\ 1815 \\ \hline 20570 \end{array}$$
 ⑨
$$\begin{array}{r} 900 \\ \times 20 \\ \hline 18000 \end{array}$$

2

$$96 \times 25 = 2400$$

- ⑩ 2400 m

59 Division**1**

- ① 9 ② 90
 ③ 3 R5 ④ 9 R2
- ⑤
$$\begin{array}{r} 13 \\ 4 \overline{)52} \\ \underline{4} \\ 12 \\ \underline{12} \\ 0 \end{array}$$
 ⑥
$$\begin{array}{r} 13 \\ 7 \overline{)96} \\ \underline{7} \\ 26 \\ \underline{21} \\ 5 \end{array}$$
 ⑦
$$\begin{array}{r} 10 \\ 6 \overline{)64} \\ \underline{6} \\ 4 \end{array}$$
- ⑧
$$\begin{array}{r} 125 \\ 5 \overline{)625} \\ \underline{5} \\ 12 \\ \underline{10} \\ 25 \\ \underline{25} \\ 0 \end{array}$$
 ⑨
$$\begin{array}{r} 42 \\ 9 \overline{)378} \\ \underline{36} \\ 18 \\ \underline{18} \\ 0 \end{array}$$
 ⑩
$$\begin{array}{r} 806 \\ 3 \overline{)2419} \\ \underline{24} \\ 19 \\ \underline{18} \\ 1 \end{array}$$

2

- ⑪ $38 \div 5 = 7 \text{ R}3$
 $7 + 1 = 8$
 ⑫ 8 benches

60 Calculation with Decimal Numbers and Fractions**◆**

- ① 0.9 ② 1.9
 ③ 1.9 ④ 6.7
 ⑤ 1 ⑥ 1.4
 ⑦ 0.5 ⑧ 1.1
 ⑨ 1.6 ⑩ 0.5
 ⑪ 0.7 ⑫ 0.7
 ⑬ $\frac{3}{5}$ ⑭ $\frac{5}{7}$
 ⑮ $1\left(\frac{8}{8}\right)$ ⑯ $1\left(\frac{4}{4}\right)$
 ⑰ $\frac{1}{5}$ ⑱ $\frac{4}{9}$
 ⑲ $\frac{1}{3}$ ⑳ $\frac{2}{6}$

61 Time and Elapsed Time / Length / Weight**1**

- ① 240 ② 1, 55
③ 6000 ④ 5060

2

- ⑤ $10 + 20 = 30$
⑥ 30 minutes

3

- ⑦ $650 + 400 = 1050$
 $1050\text{ m} = 1\text{ km}50\text{ m}$
⑧ $1\text{ km}50\text{ m}$

4

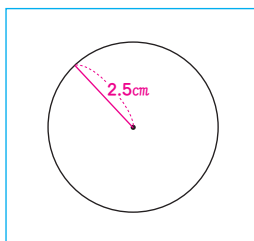
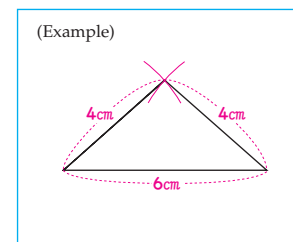
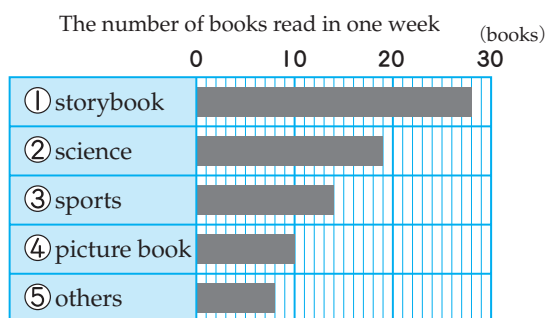
- ⑨ $2\text{ kg } 100\text{ g} = 2100\text{ g}$
 $400 + \square = 2100$
⑩ $1\text{ kg } 700\text{ g} (1700\text{ g} = 1\text{ kg } 700\text{ g})$

62 Geometric Figures**1**

- ① 16 cm
② equilateral triangle

2

- ③ f

3**4****5****63** Tables and Graphs**1****2**

- ⑥ 2 times
⑦ 27 times
▶
⑧ 6 more times ⑨ 1 more times
⑩ Nancy

64 Word Problems**1**

- ① $80 + 120 = 200$
 $200 - 190 = 10$
② 10 cm

2

- ③ $72 - 48 = 24$
 $24 \div 2 = 12$
④ 12 stickers

3

- ⑤ $3 \times 9 = 27$
⑥ 27 m

4

- ⑦ $\square \times 7 = 84$
⑧ 12 pieces