

# MATHEMATICS

## WORKBOOK

3B

### Answer Key

Name

KYOIKU DOJINSHA

### 2 ① Isosceles and Equilateral Triangles

1

- ① isosceles
- ② equilateral

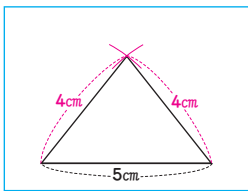
2

- ③ c, f
- ④ a, d

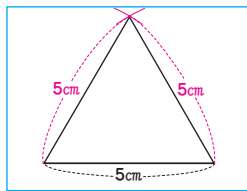
### 3 ① Isosceles and Equilateral Triangles

1

①



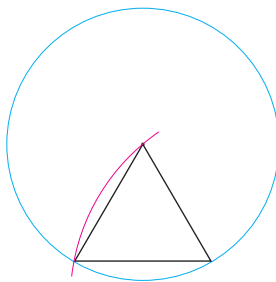
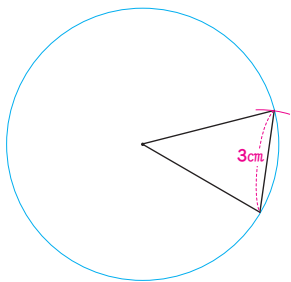
②



2

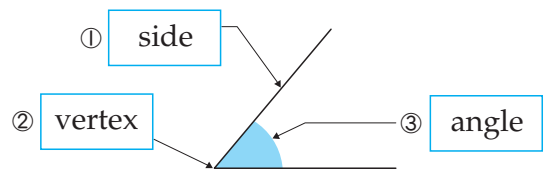
③ (Example)

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

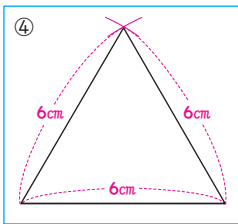
① isosceles triangle

② A, B and C

2

③ (c), (a), (d), (b)

3



### 6 | ① Division Algorithm(I)



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

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

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

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

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

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

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

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

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

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

### 7 | ① Division Algorithm(I)



① 
$$\begin{array}{r} 15 \\ 3 \overline{)47} \\ \underline{3} \phantom{0} \\ 17 \\ \underline{15} \\ 2 \end{array}$$

② 
$$\begin{array}{r} 29 \\ 2 \overline{)59} \\ \underline{4} \phantom{0} \\ 19 \\ \underline{18} \\ 1 \end{array}$$

③ 
$$\begin{array}{r} 14 \\ 5 \overline{)74} \\ \underline{5} \phantom{0} \\ 24 \\ \underline{20} \\ 4 \end{array}$$

④ 
$$\begin{array}{r} 23 \\ 4 \overline{)95} \\ \underline{8} \phantom{0} \\ 15 \\ \underline{12} \\ 3 \end{array}$$

⑤ 
$$\begin{array}{r} 11 \\ 8 \overline{)93} \\ \underline{8} \phantom{0} \\ 13 \\ \underline{8} \\ 5 \end{array}$$

⑥ 
$$\begin{array}{r} 12 \\ 4 \overline{)51} \\ \underline{4} \phantom{0} \\ 11 \\ \underline{8} \\ 3 \end{array}$$

⑦ 
$$\begin{array}{r} 11 \\ 7 \overline{)78} \\ \underline{7} \phantom{0} \\ 8 \\ \underline{7} \\ 1 \end{array}$$

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

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

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

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 
$$\begin{array}{r} 376 \\ 2 \overline{)753} \\ \underline{6} \phantom{0} \\ 15 \\ \underline{14} \\ 13 \\ \underline{12} \\ 1 \end{array}$$

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

③ 
$$\begin{array}{r} 113 \\ 8 \overline{)909} \\ \underline{8} \phantom{0} \\ 10 \\ \underline{8} \\ 29 \\ \underline{24} \\ 5 \end{array}$$

④ 
$$\begin{array}{r} 156 \\ 4 \overline{)625} \\ \underline{4} \phantom{0} \\ 22 \\ \underline{20} \\ 25 \\ \underline{24} \\ 1 \end{array}$$

⑤ 
$$\begin{array}{r} 126 \\ 5 \overline{)631} \\ \underline{5} \phantom{0} \\ 13 \\ \underline{10} \\ 31 \\ \underline{30} \\ 1 \end{array}$$

⑥ 
$$\begin{array}{r} 118 \\ 6 \overline{)712} \\ \underline{6} \phantom{0} \\ 11 \\ \underline{11} \\ 2 \\ \underline{2} \\ 0 \end{array}$$

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

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

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

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

**9** ① Division Algorithm (1)



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

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

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

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

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

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

⑦ 
$$\begin{array}{r} 307 \\ 3 \overline{)921} \\ \underline{9} \phantom{0} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

⑧ 
$$\begin{array}{r} 109 \\ 9 \overline{)987} \\ \underline{9} \phantom{0} \\ 8 \\ \underline{8} \\ 0 \\ 7 \\ \underline{7} \\ 0 \end{array}$$

⑨ 
$$\begin{array}{r} 1493 \\ 5 \overline{)7468} \\ \underline{5} \phantom{0} \\ 24 \\ \underline{20} \\ 46 \\ \underline{45} \\ 18 \\ \underline{15} \\ 3 \end{array}$$

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

**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 
$$\begin{array}{r} 43 \\ 6 \overline{)259} \\ \underline{24} \phantom{0} \\ 19 \\ \underline{18} \\ 1 \end{array}$$

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

③ 
$$\begin{array}{r} 86 \\ 7 \overline{)604} \\ \underline{56} \phantom{0} \\ 44 \\ \underline{42} \\ 2 \end{array}$$

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

⑤ 
$$\begin{array}{r} 92 \\ 3 \overline{)277} \\ \underline{27} \phantom{0} \\ 7 \\ \underline{6} \\ 1 \end{array}$$

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

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

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

⑨ 
$$\begin{array}{r} 889 \\ 9 \overline{)8006} \\ \underline{72} \phantom{0} \\ 80 \\ \underline{72} \\ 86 \\ \underline{81} \\ 5 \end{array}$$

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

**12** ② Division Algorithm (2)



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

② 
$$\begin{array}{r} 207 \\ 7 \overline{)1454} \\ \underline{14} \phantom{0} \\ 54 \\ \underline{49} \\ 5 \end{array}$$

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

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

⑤ 
$$\begin{array}{r} 30 \\ 8 \overline{)247} \\ \underline{24} \phantom{0} \\ 7 \end{array}$$

⑥ 
$$\begin{array}{r} 420 \\ 9 \overline{)3781} \\ \underline{36} \phantom{0} \\ 18 \\ \underline{18} \\ 1 \end{array}$$

⑦ 
$$\begin{array}{r} 104 \\ 6 \overline{)626} \\ \underline{6} \phantom{0} \\ 26 \\ \underline{24} \\ 2 \end{array}$$

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

⑨ 
$$\begin{array}{r} 100 \\ 7 \overline{)706} \\ \underline{7} \phantom{0} \\ 6 \end{array}$$

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

**13** ② Division Algorithm(2)**1**

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

$$\boxed{25} \times \boxed{3} \div \boxed{5} = \boxed{15}$$

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

$$(\quad 25 \div 5 \times 3 \quad) = \boxed{15}$$

**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  $60 \div 3 = \boxed{20}$

②  $12 \div 3 = 4$

The total is:  $\boxed{24}$

**2**

③ 22

④ 23

⑤ 17

⑥ 52

⑦ 123

⑧ 140

⑨ 210

⑩ 1300

## 17 | 2. Division Algorithm



$$\begin{array}{r} 18 \\ 4 \overline{)72} \\ \underline{4} \phantom{0} \\ 32 \\ \underline{32} \\ 0 \end{array}$$

$$\begin{array}{r} 32 \\ 3 \overline{)97} \\ \underline{9} \phantom{0} \\ 7 \\ \underline{6} \\ 1 \end{array}$$

$$\begin{array}{r} 20 \\ 4 \overline{)83} \\ \underline{8} \phantom{0} \\ 3 \end{array}$$

$$\begin{array}{r} 136 \\ 6 \overline{)817} \\ \underline{6} \phantom{0} \\ 21 \\ \underline{18} \\ 37 \\ \underline{36} \\ 1 \end{array}$$

$$\begin{array}{r} 206 \\ 3 \overline{)618} \\ \underline{6} \phantom{0} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

$$\begin{array}{r} 63 \\ 9 \overline{)572} \\ \underline{54} \phantom{0} \\ 32 \\ \underline{27} \\ 5 \end{array}$$

$$\begin{array}{r} 812 \\ 8 \overline{)6500} \\ \underline{64} \phantom{00} \\ 10 \\ \underline{8} \phantom{0} \\ 20 \\ \underline{16} \\ 4 \end{array}$$

$$\begin{array}{r} 2002 \\ 4 \overline{)8008} \\ \underline{8} \phantom{000} \\ 0 \\ \underline{0} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

$$\textcircled{9} 21$$

$$\textcircled{10} 144$$

## 18 | 2. Division Algorithm

1

$$\textcircled{1} 78 \div 3 = 26$$

$$\textcircled{2} 26 \text{ cm}$$

2

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

$\textcircled{4}$  We will fill 63 bottles, and there will be 3 dl of juice left.

3

$$\textcircled{5} 12 \times 6 \div 8 = 9$$

$$\textcircled{6} 9 \text{ times}$$

## 19 | What Computation Should We Use?



$$\textcircled{1} 24 \times 8 = 192$$

192 pictures

$$\textcircled{2} 145 - 125 = 20$$

20 m

$$\textcircled{3} 285 \div 5 = 57$$

57 m

$$\textcircled{4} 3600 \div 8 = 450$$

450 yen

## 20 | Missing Digits Calculation

①

$$\begin{array}{r} 275 \\ 3 \overline{)825} \\ \underline{6} \phantom{0} \\ 22 \\ \underline{21} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

②

$$\begin{array}{r} 943 \\ 8 \overline{)7544} \\ \underline{72} \phantom{00} \\ 34 \\ \underline{32} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

**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  $1.4 \ell$

**2**

- ③  $1.8 - 0.6 = 1.2$   
 ④  $1.2 \text{dl}$

**3**

- ⑤  $0.6 + 0.4 - 0.8 = 0.2$   
 ⑥  $0.2 \ell$

**26** 13. Decimal Numbers**1**

- ① 0.7  
 ② 4.8  
 ③ 2.6  
 ④ 4.7

**2**

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

**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.



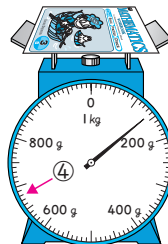
- ② 25 g                      ③ 50 g

**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 
$$\begin{array}{r} 376 \\ 2 \overline{)753} \\ \underline{6} \phantom{0} \\ 15 \phantom{0} \\ \underline{14} \phantom{0} \\ 13 \phantom{0} \\ \underline{12} \\ 1 \end{array}$$

② 
$$\begin{array}{r} 103 \\ 5 \overline{)518} \\ \underline{5} \phantom{0} \\ 18 \phantom{0} \\ \underline{15} \\ 3 \end{array}$$

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

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  $16 \times 40 = (16 \times \boxed{4}) \times 10 = \boxed{640}$

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 
$$\begin{array}{r} \phantom{0}31 \\ \times 12 \\ \hline \phantom{0}62 \\ \phantom{0}31\phantom{0} \\ \hline \phantom{0}372 \end{array}$$

② 
$$\begin{array}{r} \phantom{0}14 \\ \times 23 \\ \hline \phantom{0}42 \\ \phantom{0}28\phantom{0} \\ \hline \phantom{0}322 \end{array}$$

③ 
$$\begin{array}{r} \phantom{0}21 \\ \times 42 \\ \hline \phantom{0}42 \\ \phantom{0}84\phantom{0} \\ \hline \phantom{0}882 \end{array}$$

④ 
$$\begin{array}{r} \phantom{0}30 \\ \times 13 \\ \hline \phantom{0}90 \\ \phantom{0}30\phantom{0} \\ \hline \phantom{0}390 \end{array}$$

⑤ 
$$\begin{array}{r} \phantom{0}23 \\ \times 33 \\ \hline \phantom{0}69 \\ \phantom{0}69\phantom{0} \\ \hline \phantom{0}759 \end{array}$$

⑥ 
$$\begin{array}{r} \phantom{0}11 \\ \times 59 \\ \hline \phantom{0}99 \\ \phantom{0}55\phantom{0} \\ \hline \phantom{0}649 \end{array}$$

⑦ 
$$\begin{array}{r} \phantom{0}24 \\ \times 14 \\ \hline \phantom{0}96 \\ \phantom{0}24\phantom{0} \\ \hline \phantom{0}336 \end{array}$$

⑧ 
$$\begin{array}{r} \phantom{0}38 \\ \times 22 \\ \hline \phantom{0}76 \\ \phantom{0}76\phantom{0} \\ \hline \phantom{0}836 \end{array}$$

⑨ 
$$\begin{array}{r} \phantom{0}19 \\ \times 32 \\ \hline \phantom{0}38 \\ \phantom{0}57\phantom{0} \\ \hline \phantom{0}608 \end{array}$$

⑩ 
$$\begin{array}{r} \phantom{0}15 \\ \times 56 \\ \hline \phantom{0}90 \\ \phantom{0}75\phantom{0} \\ \hline \phantom{0}840 \end{array}$$

Let's try these!

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

**35** ② Multiplication by a Two-digit Number



① 
$$\begin{array}{r} \phantom{0}32 \\ \times 28 \\ \hline \phantom{0}256 \\ \phantom{0}64\phantom{0} \\ \hline \phantom{0}896 \end{array}$$

② 
$$\begin{array}{r} \phantom{0}73 \\ \times 94 \\ \hline \phantom{0}292 \\ \phantom{0}657\phantom{0} \\ \hline \phantom{0}6862 \end{array}$$

③ 
$$\begin{array}{r} \phantom{0}24 \\ \times 38 \\ \hline \phantom{0}192 \\ \phantom{0}72\phantom{0} \\ \hline \phantom{0}912 \end{array}$$

④ 
$$\begin{array}{r} \phantom{0}43 \\ \times 18 \\ \hline \phantom{0}344 \\ \phantom{0}43\phantom{0} \\ \hline \phantom{0}774 \end{array}$$

⑤ 
$$\begin{array}{r} \phantom{0}29 \\ \times 43 \\ \hline \phantom{0}87 \\ \phantom{0}116\phantom{0} \\ \hline \phantom{0}1247 \end{array}$$

⑥ 
$$\begin{array}{r} \phantom{0}42 \\ \times 62 \\ \hline \phantom{0}84 \\ \phantom{0}252\phantom{0} \\ \hline \phantom{0}2604 \end{array}$$

⑦ 
$$\begin{array}{r} \phantom{0}53 \\ \times 27 \\ \hline \phantom{0}371 \\ \phantom{0}106\phantom{0} \\ \hline \phantom{0}1431 \end{array}$$

⑧ 
$$\begin{array}{r} \phantom{0}46 \\ \times 85 \\ \hline \phantom{0}230 \\ \phantom{0}368\phantom{0} \\ \hline \phantom{0}3910 \end{array}$$

⑨ 
$$\begin{array}{r} \phantom{0}97 \\ \times 32 \\ \hline \phantom{0}194 \\ \phantom{0}291\phantom{0} \\ \hline \phantom{0}3104 \end{array}$$

⑩ 
$$\begin{array}{r} \phantom{0}84 \\ \times 76 \\ \hline \phantom{0}504 \\ \phantom{0}588\phantom{0} \\ \hline \phantom{0}6384 \end{array}$$

Let's try these!

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

**36** ② Multiplication by a Two-digit Number

**1**

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

② 
$$\begin{array}{r} \phantom{0}26 \\ \times \phantom{0}3 \\ \hline \phantom{0}78 \end{array}$$

**2**

③ 
$$\begin{array}{r} \phantom{0}48 \\ \times 20 \\ \hline \phantom{0}960 \end{array}$$

④ 
$$\begin{array}{r} \phantom{0}36 \\ \times 40 \\ \hline \phantom{0}1440 \end{array}$$

⑤ 
$$\begin{array}{r} \phantom{0}67 \\ \times 30 \\ \hline \phantom{0}2010 \end{array}$$

⑥ 
$$\begin{array}{r} \phantom{0}16 \\ \times \phantom{0}8 \\ \hline \phantom{0}128 \end{array}$$

⑦ 
$$\begin{array}{r} \phantom{0}25 \\ \times \phantom{0}9 \\ \hline \phantom{0}225 \end{array}$$

⑧ 
$$\begin{array}{r} \phantom{0}83 \\ \times \phantom{0}2 \\ \hline \phantom{0}166 \end{array}$$

⑨ 
$$\begin{array}{r} \phantom{0}69 \\ \times \phantom{0}4 \\ \hline \phantom{0}276 \end{array}$$

⑩ 
$$\begin{array}{r} \phantom{0}58 \\ \times 70 \\ \hline \phantom{0}4060 \end{array}$$

**37** ② Multiplication by a Two-digit Number



① 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

② 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

③ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

④ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑤ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑥ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑦ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑧ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑨ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑩ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

- Let's try these!
- ① 11676
  - ② 13067
  - ③ 25795
  - ④ 37080
  - ⑤ 35400

**38** ② Multiplication by a Two-digit Number



①  $43 \times 21 = 903$

② 903 g



③  $85 \times 28 = 2380$

④ 2380 yen



⑤  $8 \times 65 = 520$

⑥ 520 sheets



⑦  $190 \times 15 = 2850$

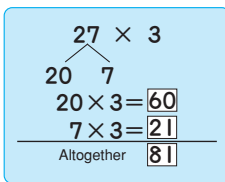
$3000 - 2850 = 150$

⑧ 150 m

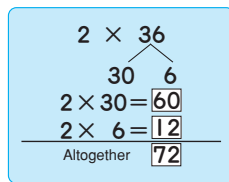
**39** ③ Mental Calculation



① 81



② 72



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

③ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

④ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑤ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑥ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑦ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑧ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑨ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑩ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

⑪ 
$$\begin{array}{r} \phantom{0} \\ \times \\ \hline \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array}$$

**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**

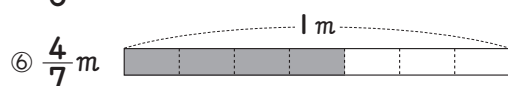
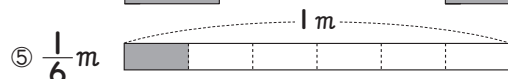
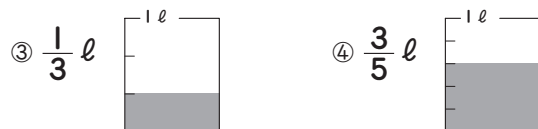
③  $4 \times 8 = 32$

④ 32 m

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

①  $\frac{1}{2} m$

②  $\frac{3}{4} m$

**2****3**

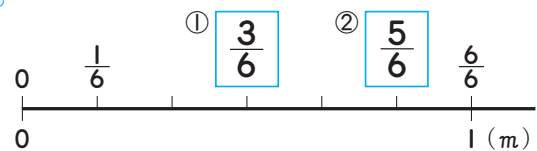
⑦ 5

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

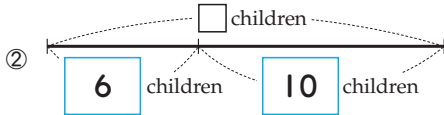
⑨ 0.6

⑩ 0.9



**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  $70g$

**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)

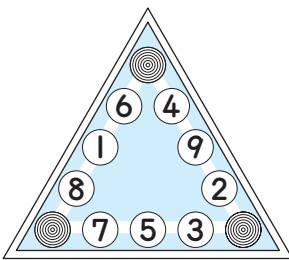
**2**

- ⑤ 10
- ⑥ 71
- ⑦ 7
- ⑧ 19
- ⑨ 12
- ⑩ 67

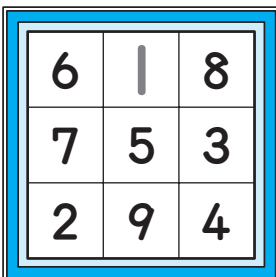
**55** **Magic Square**



① Answers may vary. For example,



② Answers may vary. For example,



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

**1**

- ① 
$$\begin{array}{r} 31 \\ \times 23 \\ \hline 93 \\ 62\phantom{0} \\ \hline 713 \end{array}$$
- ② 
$$\begin{array}{r} 25 \\ \times 37 \\ \hline 175 \\ 75\phantom{0} \\ \hline 925 \end{array}$$
- ③ 
$$\begin{array}{r} 42 \\ \times 62 \\ \hline 84 \\ 252\phantom{0} \\ \hline 2604 \end{array}$$
- ④ 
$$\begin{array}{r} 47 \\ \times 30 \\ \hline 1410 \end{array}$$
- ⑤ 
$$\begin{array}{r} 362 \\ \times 54 \\ \hline 1448 \\ 1810\phantom{0} \\ \hline 19548 \end{array}$$
- ⑥ 
$$\begin{array}{r} 709 \\ \times 82 \\ \hline 1418 \\ 5672\phantom{0} \\ \hline 58138 \end{array}$$

- 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 
$$\begin{array}{r} 13 \\ 4 \overline{)52} \\ \underline{4} \phantom{0} \\ 12 \\ \underline{12} \\ 0 \end{array}$$
      ⑥ 
$$\begin{array}{r} 13 \\ 7 \overline{)96} \\ \underline{7} \phantom{0} \\ 26 \\ \underline{21} \\ 5 \end{array}$$
      ⑦ 
$$\begin{array}{r} 10 \\ 6 \overline{)64} \\ \underline{6} \phantom{0} \\ 4 \end{array}$$
- ⑧ 
$$\begin{array}{r} 125 \\ 5 \overline{)625} \\ \underline{5} \phantom{00} \\ 12 \phantom{0} \\ \underline{10} \phantom{0} \\ 25 \\ \underline{25} \\ 0 \end{array}$$
      ⑨ 
$$\begin{array}{r} 42 \\ 9 \overline{)378} \\ \underline{36} \phantom{0} \\ 18 \\ \underline{18} \\ 0 \end{array}$$
      ⑩ 
$$\begin{array}{r} 806 \\ 3 \overline{)2419} \\ \underline{24} \phantom{0} \\ 19 \\ \underline{18} \\ 1 \end{array}$$

**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**

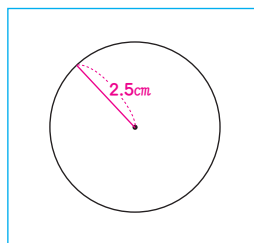
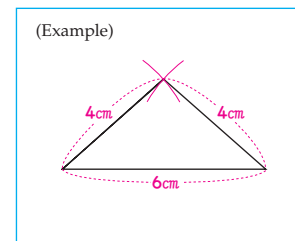
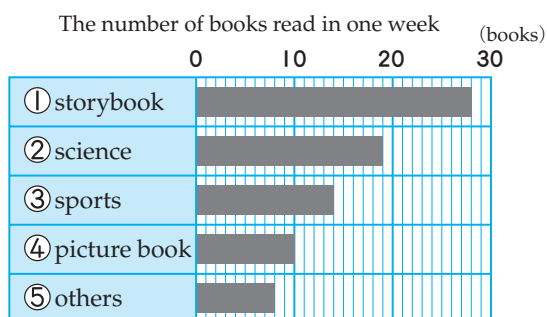
- ⑨  $2\text{ kg } 100\text{ g} = 2100\text{ g}$   
 $400 + \square = 2100$   
 ⑩  $1\text{ kg } 700\text{ g} (1700\text{ g} = 1\text{ kg } 700\text{ g})$

**62 Geometric Figures****1**

- ① 16cm  
 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 10cm

**2**

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

**3**

- ⑤  $3 \times 9 = 27$   
 ⑥ 27m

**4**

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