MATHEMATICS
WORKBOOK

4A

Answer Key

Name

KYOIKU DOJINSHA

2 Review(1)

◆

① 105
② 932
③ 6048
④ 12728
⑤ 15 R3
⑥ 123
⑦ 124 R5
⑧ 64 R7
⑨ 0.9
⑩ 1.6
⑪ 0.3
⑫ 0.6
⑬ $\frac{7}{9}$
⑭ $1(\frac{5}{5})$
⑮ $\frac{4}{8}$
⑯ $\frac{2}{7}$
⑰ 20
⑱ 80

3 Review(2)

1

① 7,000,000
② 7,090,600
③ 250,000
④ 8.5
⑤ $\frac{4}{7}$

2

⑥ 2, 750
⑦ 4098
⑧ 2, 30

3

⑨ isosceles triangle
⑩ 4cm

4 ① The System of Large Numbers

1

① 2
② hundred millions or 100,000,000
③ billion or 1,000,000,000
④ one billion, twenty-eight million, seven hundred forty thousand

2

⑤ one hundred twenty-five million
⑥ forty-seven billion, ninety-eight million, sixty thousand
⑦ two hundred forty-three billion, one hundred seventy-seven million
⑧ eight hundred billion, two hundred million, fifty thousand

5 ① The System of Large Numbers

1

① billions
② 9
③ 100
④ 0

2

⑤ 834,476,151
⑥ 272,385,111,222
⑦ 27,030,200
⑧ 30,300,013,000

6 ① The System of Large Numbers

1

① 120,000,000
② 3,000,000,000
③ 40,000,000,000
④ 780,000,000,000
⑤ 51,000,000
⑥ 24,000,000
⑦ 84,000,000,000
⑧ 500,000,000

2

⑨ 102,345,678
⑩ 987,654,321

7 ② Multiplication

1

①
$$\begin{array}{r} 246 \\ \times\ 712 \\ \hline 492 \\ 246 \\ 1722 \\ \hline 175152 \end{array}$$

②
$$\begin{array}{r} 850 \\ \times\ 437 \\ \hline 5950 \\ 2550 \\ 3400 \\ \hline 371450 \end{array}$$

2

③ 80454
④ 300840
⑤ 364908
⑥ 139995
⑦ 520990
⑧ 280368

8 ② Multiplication

1

①
$$\begin{array}{r} 843 \\ \times\ 207 \\ \hline 5901 \\ 1686 \\ \hline 174501 \end{array}$$

②
$$\begin{array}{r} 340 \\ \times\ 1800 \\ \hline 272 \\ 34 \\ \hline 612000 \end{array}$$

2

③
$$\begin{array}{r} 524 \\ \times\ 508 \\ \hline 4192 \\ 2620 \\ \hline 266192 \end{array}$$

④
$$\begin{array}{r} 442 \\ \times\ 703 \\ \hline 1326 \\ 3094 \\ \hline 310726 \end{array}$$

⑤
$$\begin{array}{r} 342 \\ \times\ 960 \\ \hline 2052 \\ 3078 \\ \hline 328320 \end{array}$$

⑥
$$\begin{array}{r} 120 \\ \times\ 3500 \\ \hline 60 \\ 36 \\ \hline 420000 \end{array}$$

⑦
$$\begin{array}{r} 4800 \\ \times\ 530 \\ \hline 144 \\ 240 \\ \hline 2544000 \end{array}$$

⑧
$$\begin{array}{r} 290 \\ \times\ 17000 \\ \hline 203 \\ 29 \\ \hline 4930000 \end{array}$$

9 1. Large Number

1

① billions ② hundred billions

2

③ 304,005,000

④ 89,020,000,060

⑤ 125,087,000,000

⑥ 99,999,900

⑦ 6,000,000,000

⑧ 300,000,000

3

⑨
$$\begin{array}{r} 4300 \\ \times\ 260 \\ \hline 258 \\ 86 \\ \hline 1118000 \end{array}$$

⑩
$$\begin{array}{r} 1800 \\ \times\ 52000 \\ \hline 36 \\ 90 \\ \hline 936000000 \end{array}$$

10 2. Angles

1

① ⓑ

② ⓒ

③ ⓓ

2

④ 180

⑤ 360

11 2. Angles

1

① 55°

2

② 35° ③ 130°

④ 205° ⑤ 330°

12 2. Angles

1

① 55°

② 125°

③ 55°

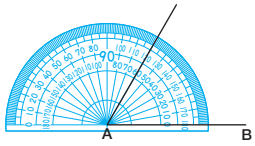
2

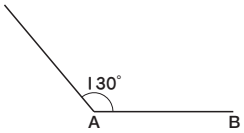
④ 120° (90+30=120) ⑤ 75° (30+45=75)

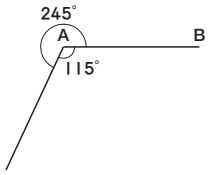
⑥ 15° (60−45=15) ⑦ 60° (90−30=60)

13 2. Angles

1

① 

② 

③ 

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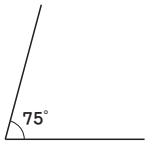
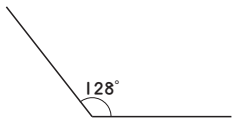
④ 

⑤ 

14 ① Dividing by a Multiple of 10

1

① 12÷4, 3

2

② 3　　③ 6

④ 4　　⑤ 6

3

⑥ 2 R10　　⑦ 2 R20

⑧ 8 R30　　⑨ 4 R10

15 ② Dividing by a Two-digit Number(1)

1

① ones

② 3

③
$$\begin{array}{r} 3 \\ 32\overline{)98} \\ 96 \\ \hline 2 \end{array}$$

2

④ $\begin{array}{r} 2 \\ 42\overline{)87} \\ 84 \\ \hline 3 \end{array}$　⑤ $\begin{array}{r} 3 \\ 21\overline{)65} \\ 63 \\ \hline 2 \end{array}$　⑥ $\begin{array}{r} 3 \\ 12\overline{)36} \\ 36 \\ \hline 0 \end{array}$

⑦ $\begin{array}{r} 2 \\ 32\overline{)67} \\ 64 \\ \hline 3 \end{array}$　⑧ $\begin{array}{r} 2 \\ 43\overline{)87} \\ 86 \\ \hline 1 \end{array}$　⑨ $\begin{array}{r} 2 \\ 31\overline{)70} \\ 62 \\ \hline 8 \end{array}$

3

⑩ 2×31+23=62+23
=85

16 ② Dividing by a Two-digit Number(1)

◆

① $\begin{array}{r} 5 \\ 12\overline{)62} \\ 60 \\ \hline 2 \end{array}$

② $\begin{array}{r} 3 \\ 12\overline{)41} \\ 36 \\ \hline 5 \end{array}$　③ $\begin{array}{r} 3 \\ 24\overline{)89} \\ 72 \\ \hline 17 \end{array}$　④ $\begin{array}{r} 6 \\ 13\overline{)78} \\ 78 \\ \hline 0 \end{array}$

⑤ $\begin{array}{r} 4 \\ 14\overline{)59} \\ 56 \\ \hline 3 \end{array}$　⑥ $\begin{array}{r} 2 \\ 23\overline{)65} \\ 46 \\ \hline 19 \end{array}$　⑦ $\begin{array}{r} 7 \\ 12\overline{)95} \\ 84 \\ \hline 11 \end{array}$

⑧ $\begin{array}{r} 4 \\ 14\overline{)68} \\ 56 \\ \hline 12 \end{array}$　⑨ $\begin{array}{r} 7 \\ 13\overline{)98} \\ 91 \\ \hline 7 \end{array}$　⑩ $\begin{array}{r} 5 \\ 14\overline{)76} \\ 70 \\ \hline 6 \end{array}$

17 ② Dividing by a Two-digit Number(1)

◆

① 21)128 → 6, 126, 2

② 48)205 → 4, 192, 13

③ 32)239 → 7, 224, 15

④ 54)376 → 6, 324, 52

⑤ 69)498 → 7, 483, 15

⑥ 48)329 → 6, 288, 41

⑦ 62)310 → 5, 310, 0

⑧ 36)252 → 7, 252, 0

⑨ 24)219 → 9, 216, 3

⑩ 17)151 → 8, 136, 15

18 ② Dividing by a Two-digit Number(1)

◆

① 17)69 → 4, 68, 1

② 19)83 → 4, 76, 7

③ 26)90 → 3, 78, 12

④ 36)79 → 2, 72, 7

⑤ 46)283 → 6, 276, 7

⑥ 38)195 → 5, 190, 5

⑦ 67)549 → 8, 536, 13

⑧ 26)205 → 7, 182, 23

⑨ 17)156 → 9, 153, 3

⑩ 35)318 → 9, 315, 3

19 ② Dividing by a Two-digit Number(1)

1

① 76 ÷ 12 = 6 R4

② Each child will receive 6 cookies, and there will be 4 cookies left over.

2

③ 96 ÷ 24 = 4

④ 4 pieces

3

⑤ 180 ÷ 37 = 4 R32

⑥ We will need 4 bags, and there will be 32 g left over.

20 ③ Dividing by a Two-digit Number(2)

◆

① 43)612 → 14, 43, 182, 172, 10

② 29)667 → 23, 58, 87, 87, 0

③ 27)951 → 35, 81, 141, 135, 6

④ 52)753 → 14, 52, 233, 208, 25

⑤ 37)925 → 25, 74, 185, 185, 0

⑥ 19)827 → 43, 76, 67, 57, 10

⑦ 42)504 → 12, 42, 84, 84, 0

⑧ 36)820 → 22, 72, 100, 72, 28

21 ③ Dividing by a Two-digit Number(2)

1

① ● the (second) highest place
● the (hundreds) place

2

② 21)492 → 234 (42, 72, 63, 99, 84, 15)

③ 23)514 → 223 (46, 54, 46, 88, 69, 19)

④ 45)582 → 129 (45, 132, 90, 424, 405, 19)

⑤ 26)821 → 316 (78, 41, 26, 156, 156, 0)

⑥ 47)862 → 183 (47, 392, 376, 168, 141, 27)

⑦ 24)590 → 246 (48, 110, 96, 144, 144, 0)

22 ③ Dividing by a Two-digit Number(2)

◆

① 27)833 → 30 (81, 23)

② 35)722 → 206 (70, 229, 210, 19)

③ 41)845 → 20 (82, 25)

④ 19)587 → 30 (57, 17)

⑤ 23)920 → 40 (92, 0)

⑥ 65)6923 → 106 (65, 423, 390, 33)

⑦ 43)8987 → 209 (86, 387, 387, 0)

⑧ 29)3786 → 130 (29, 88, 87, 16)

23 ③ Dividing by a Two-digit Number(2)

1

① tens place (19<58)
② hundred place (38<69)
③ tens place (64>32)

2

④ 36)2952 → 82 (288, 72, 72, 0)

⑤ 42)3080 → 73 (294, 140, 126, 14)

⑥ 73)3663 → 50 (365, 13)

⑦ 54)4389 → 81 (432, 69, 54, 15)

⑧ 62)3534 → 57 (310, 434, 434, 0)

⑨ 37)2244 → 60 (222, 24)

⑩ 58)2510 → 43 (232, 190, 174, 16)

Let's try these!

① 77 R20 ② 45 R13
③ 221 R32 ④ 50 R59
⑤ 26 R15 ⑥ 200 R40

24 ③ Dividing by a Two-digit Number(2)

1

① 689÷21=32 R17
② Each student will receive 32, and there will be 17 pieces left over.

2

③ 6242÷36=173 R14
④ We will need 173 bags and 14 pieces will be left over.

3

⑤ 7200÷18=400
⑥ 400 containers and nothing left over.

25 ④ Different Ways to Divide

1

① same

② It does not change

2

③ 1　　④ 3

⑤ 5　　⑥ 8

3

⑦ same

⑧ It stays the same

4

⑨ 290　　⑩ 2400

26 ④ Different Ways to Divide

1

① 2, dividend

② (　　)

(○)

2

③
```
   24
300)7200
   6
   12
   12
    0
```

④
```
    6
450)2700
   270
     0
```

⑤
```
   25
1200)30000
   24
    60
    60
     0
```

⑥
```
   12
800)9800
   8
   18
   16
    200
```

⑦
```
   12
600)7500
   6
   15
   12
    300
```

⑧
```
    4
3000)12500
   120
    500
```

27 3. Division

1

① 5　　② 3 R10

2

③
```
   2
42)84
   84
    0
```

④
```
   2
23)65
   46
   19
```

⑤
```
   7
14)99
   98
    1
```

⑥
```
   5
17)87
   85
    2
```

⑦
```
    6
54)376
   324
    52
```

⑧
```
    9
43)410
   387
    23
```

⑨
```
   23
24)573
   48
    93
    72
    21
```

⑩
```
    76
38)2916
   266
    256
    228
     28
```

28 3. Division

1

① 80÷15=5 R5

② 5 pieces

2

③ 296÷37=8

④ 8 pieces of candy

3

⑤ 328÷26=12 R16

⑥ 12 pieces

4

⑦ 82×7+16=590

590÷69=8 R38

⑧ 8 R38

29 Check(1)

1

① 3,503,200,000

② 75,000,000

③ 9,999,999,900

2

④ $13\overline{)911}$ → 7, 91, 91, 0

⑤ $29\overline{)888}$ → 3, 87, 1

⑥ $57\overline{)4319}$ → 7, 399, 32

⑦ $46\overline{)7822}$ → 17, 46, 322, 322, 0

⑧ $38\overline{)2977}$ → 78, 266, 317, 304, 13

3

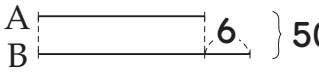
⑨ $72 \times 9 + 8 = 656$

$656 \div 27 = 24$ R8

⑩ 24 R8

30 Sports Festival

1



① $50 - 6 = 44$, $44 \div 2 = 22$ (A)

$22 + 6 = 28$ (B)

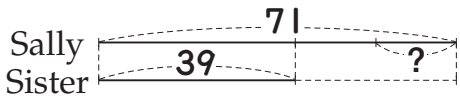
(or $50 + 6 = 56$, $56 \div 2 = 28$ (B)

$28 - 6 = 22$ (A))

② Group A 22 paper cranes

③ Group B 28 paper cranes

2

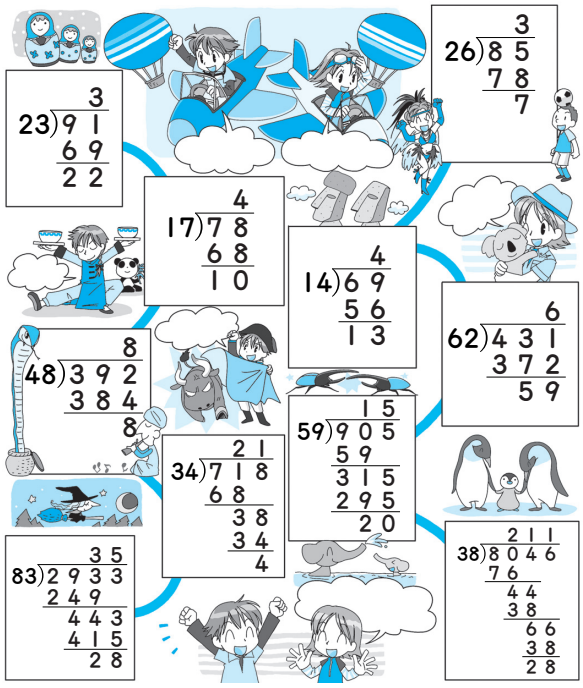


④ $71 - 39 = 32$

$32 \div 2 = 16$

⑤ 16sheets

31 Division tour



32 4. How to Organize Data

◆

① Weekly Record of Lost and Found

Item	Number of people	
Handkerchiefs	𝍸	3
Pencils	𝍸 |	6
Erasers	||||	4
Caps	|	1
Total	14	

② pencils

③ Weekly Lost and Found Record (Items and Locations)

Items \ Locations	Playground	Hallway	Classroom	Stairway	Total
Handkerchiefs	|| 2	0	0	| 1	3
Pencils	| 1	| 1	𝍸 3	| 1	6
Erasers	0	| 1	|| 2	| 1	4
Caps	| 1	0	0	0	1
Total	4	2	5	3	14

④ pencils, classroom

33 4. How to Organize Data

◆

①

Dogs	Yes	8
	No	12
Cats	Yes	7
	No	13

②

		Dogs	
		Yes	No
Cats	Yes	3	4
	No	5	8

③ 3

④ 8

34 ① Approximate Numbers

1

① 56,000

② 57,000

2 (In any order)

③ 169,037

④ 170,986

3

⑤ 30,000 ⑥ 90,000

⑦ 180,000 ⑧ 460,000

35 ① Approximate Numbers

1

① 6300 ② 4000

③ 25,000 ④ 90,000

⑤ 330,000 ⑥ 130,000

2

⑦ 45,000 ⑧ 800,000

⑨ 9,900,000 ⑩ 8,000,000

36 ② Calculations with Approximate Numbers

1

① 77,000

② 23,000

2

③ 1,100,000 ⑤ 1,170,000

④ 550,000 ⑥ 270,000

3

⑦ 750,000 + 380,000 + 180,000
= 1,310,000

⑧ 131 ten thousands

⑨ 750,000 − 180,000 = 570,000

⑩ 57 ten thousands

37 5. Approximate Numbers

1

① 4000　② 20,000
③ 80,000　④ 90,000

2

⑤ 39,000　⑥ 90,000

3

⑦ 400,000　⑧ 70,000
⑨ 90,000

4

⑩ Yes (300＋400＋300＝1000)

38 6. Line Graphs

◆

① time of day
② temperature
③ 1℃
④ Time : 2p.m.
Temperature : 27℃
⑤ Between 11 o'clock and 12 o'clock

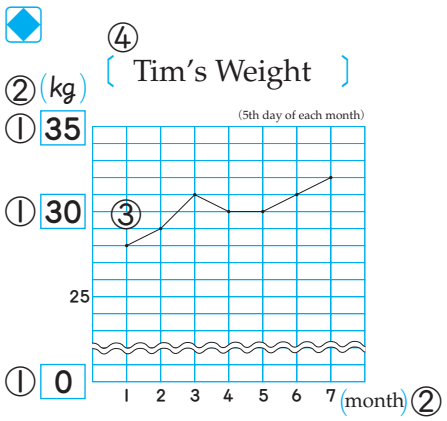
39 6. Line Graphs

◆

① 2p.m.
② 1p.m.
③ 12 o'clock
④ 4.5 Degrees
⑤ ground temperature

40 6. Line Graphs

◆



⑤ Between April and May

41 Check(2)

1

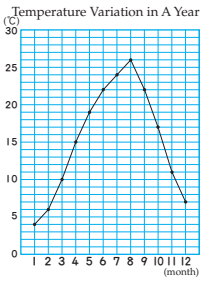
① 70,000
② 1,100,000
③ 360,000

2

④ 1000＋3000＋4000＝8000
⑤ 8 thousands

3

⑥



⑦ Month : August
Temperature : 26℃

42 ① Calculations with Parentheses

1

① 370
② 430

2

③ 130　④ 880
⑤ 666　⑥ 296
⑦ 5　⑧ 6

3

⑨ 500－(140＋130)
＝500－270
＝230
⑩ 230yen

43 ② Math Sentence with Multiplication and Division

1

① 64
② 36

2

③ 100　④ 520
⑤ 20　⑥ 76
⑦ 126　⑧ 420

3

⑨ 200＋420÷2
＝200＋210
＝410
⑩ 410yen

44 ② Math Sentence with Multiplication and Division

1

① 3
② 10

2

③ 246　④ 108
⑤ 5　⑥ 76
⑦ 64　⑧ 24

3

⑨ ＋
⑩ ÷

45 ③ Properties of Operations

1

① 9
② 90
③ 50
④ 90

2

⑤ 195　⑥ 195
⑦ 20　⑧ 20

46 ④ Relationships Between Operations

1

① 260÷4(=65) ② 256÷32(=8)
③ 350÷7(=50) ④ 93−57(=36)
⑤ 64−29(=35) ⑥ 98−16(=82)

2

⑦ 90×□=540
540÷90=6
⑧ 6 notebooks
⑨ □+15=60
60−15=45
⑩ 45 counters

47 7. Math Sentences and Their Calculations

1

① 550
② 8
③ 160
④ 390
⑤ 62
⑥ 240

2

⑦ 918÷27(=34)
⑧ 124−38(=86)

3

⑨ 70×4+120×3=640
⑩ 640yen

48 ① Perpendicular and Parallel Lines

1

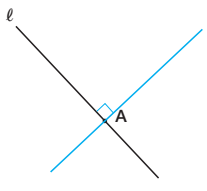
① perpendicular

2 (In any order)

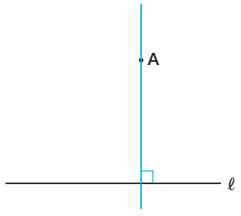
② n
③ q

3

④



⑤



49 ① Perpendicular and Parallel Lines

1

① parallel

2

② ℓ, n

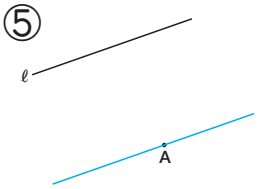
3

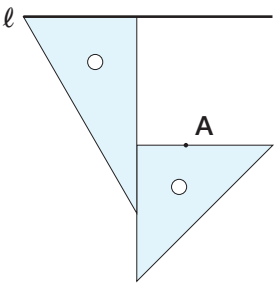
③ 2cm

④ 60°

4

⑤





50 ② Trapezoids, Parallelograms, and Rhombuses

1

① 1

② trapezoids

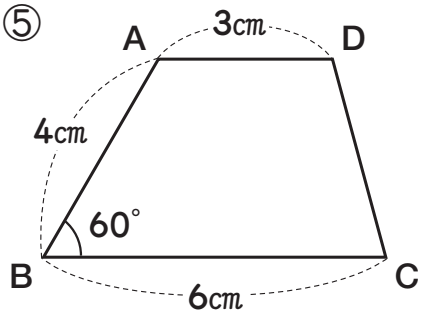
2 (In any order)

③ b

④ e

3

⑤



51 ② Trapezoids, Parallelograms, and Rhombuses

1

① equal

② equal

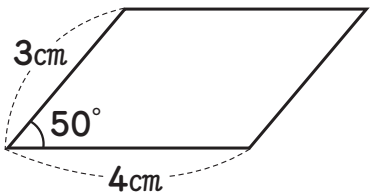
2

③ 110°

④ 4cm

3

⑤



52 ② Trapezoids, Parallelograms, and Rhombuses

1

① 4

② parallel

③ equal

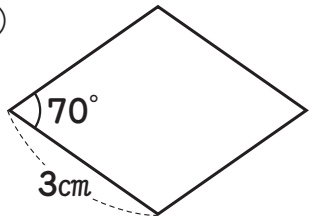
2

④ 80°

⑤ 4cm

3

⑥



53 ② Trapezoids, Parallelograms, and Rhombuses

1

① diagonal

2

② 90°

(In any order)

③ BE

④ CE

⑤ DE

3

⑥ ○

⑦ ○

⑧ ×

⑨ ○

⑩ ×

54 8. Quadrilaterals

1

① m, n

② o, p

2

③ 10cm　④ 8cm

⑤ 50°　⑥ 130°

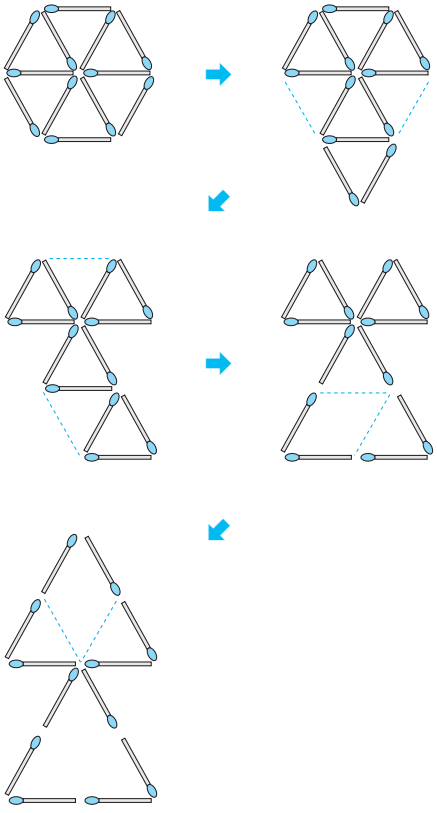
3

⑦ Rhombus

⑧ Trapezoid

⑨ Rectangle

55 Matchstick Puzzles



56 Check(3)

1

① 100　② 8

③ 2400　④ 200

2

⑤ 768 ÷ 64 (= 12)

⑥ 125 − 39 (= 86)

3

⑦ 6cm

⑧ 120°

4

⑨ Rhombus　⑩ Rectangle