

MATHEMATICS WORKBOOK

5B

Answer Key

Name

KYOIKUDOJINSHA

2 ① Even and Odd Numbers

1

- ① even number
- ② odd number

2

- ③ 10, 66, 0, 704
- ④ 39, 81, 67, 23, 5

3

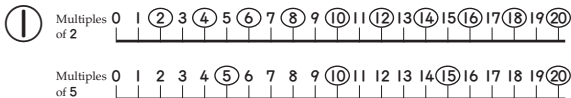
- ⑤ odd number
- ⑥ even number

4

- ⑦ 6 ⑧ 1
- ⑨ 13 ⑩ 24, 1

3 ② Multiples and Common Multiples

1



- ② 10, 20

2

- ③ 4, 8, 12 ④ 9, 18, 27

3

- ⑤ 15, 30, 45 ⑥ 14, 28, 42
- ⑦ 40, 80, 120 ⑧ 30, 60, 90
- ⑨ 12, 24, 36 ⑩ 25, 50, 75

4 ② Multiples and Common Multiples

1

- ① 20, 40, 60
- ② 20

2

- ③ 18 ④ 39
- ⑤ 20 ⑥ 24
- ⑦ 24 ⑧ 30

3

- ⑨ 12cm, 24cm, 36cm

4

- ⑩ 8:36 A.M.

5 ③ Factors and Common Factors**1**

① Factors of 16: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Factors of 24: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

② 1, 2, 4, 8

2

③ 1, 2, 3, 6

④ 1, 3, 5, 15

3

⑤ 1, 2, 4, 8

⑥ 1, 3

⑦ 1, 2, 4

⑧ 1, 2, 3, 6

⑨ 1, 2, 4, 8, 16

⑩ 1

6 ③ Factors and Common Factors**1**

① 1, 2, 4, 8

② 8

2

③ 1, 2, 3, 6

④ 6

⑤ 4

⑥ 12

3

⑦ 4cm

⑧ 6 squares

7 8. Characteristics of Whole Numbers**1**

① 1, 2, 3, 4, 6, 9, 12, 18, 36

② 50, 100, 150

③ 1, 2, 4, 8

2

④ 33

⑤ 1

⑥ 21

⑦ 7

⑧ 60

⑨ 4

3

⑩ 24cm

8 ① Average**1**① the sum of the quantities,
the number of quantities**2**② $(58 + 64 + 61) \div 3 = 61$ **3**③ $(12 + 9 + 15 + 8) \div 4 = 11$

④ 11cm

⑤ $(20 + 18 + 15 + 21 + 16) \div 5$
 $= 18$

⑥ 18 l

⑦ $(37 + 39 + 40 + 35 + 44 + 42) \div 6$
 $= 39.5$ ⑧ $39.5m^2$

<p>9 ① Average</p> <p>1</p> <p>① $4 + 2 + 0 + 5 + 3 = 14$</p> <p>② 14 students</p> <p>③ $14 \div 5 = 2.8$</p> <p>④ 2.8 students</p> <p>2</p> <p>⑤ $(500 + 300 + 0 + 600 + 800 + 700 + 600) \div 7 = 500$</p> <p>⑥ 500ml</p> <p>3</p> <p>⑦ $16 \div 5 = 3.2$</p> <p>⑧ 3.2 books</p>	<p>10 ① Average</p> <p>1</p> <p>① $19.2 \div 30 = 0.64$</p> <p>② 0.64 m</p> <p>③ $0.64 \times 750 = 480$</p> <p>④ 480 m</p> <p>2</p> <p>⑤ $35 \times 7 = 245$</p> <p>⑥ 245 pages</p> <p>3</p> <p>⑦ $12 \div 0.3 = 40$</p> <p>⑧ 40 apples</p>
<p>11 ② Per Unit Quantity</p> <p>1</p> <p>① North Garden</p> <p>② South Garden</p> <p>③ North Garden : $30 \div 6 = 5$ South Garden : $28 \div 4 = 7$</p> <p>④ South Garden</p> <p>2</p> <p>⑤ East Park : $40 \div 500 = 0.08$ West Park : $60 \div 600 = 0.1$</p> <p>⑥ East Park is less crowded.</p> <p>⑦ East Park : $500 \div 40 = 12.5$ West Park : $600 \div 60 = 10$</p> <p>⑧ East Park is less crowded.</p>	<p>12 ② Per Unit Quantity</p> <p>1</p> <p>① A : $110 \div 22 = 5$, B : $160 \div 40 = 4$</p> <p>② A : $5 \text{ kg} / \text{m}^2$, B : $4 \text{ kg} / \text{m}^2$</p> <p>③ Vegetable garden A produced a better yield.</p> <p>2</p> <p>④ $625 \div 5 = 125$, $520 \div 4 = 130$</p> <p>⑤ One that costs 520yen for 4 notebooks is more expensive.</p> <p>3</p> <p>⑥ CarA : $232 \div 20 = 11.6$ CarB : $375 \div 30 = 12.5$</p> <p>⑦ Car B has better gas mileage.</p>

13 ② Per Unit Quantity**1**

- ① km^2 (or square miles)
 ② the number of people

2

$$\textcircled{3} 6,056,000 \div 5157 = 1174. \dots$$

$$\textcircled{4} 1200 \text{ people per } km^2$$

$$\textcircled{5} 8,791,000 \div 2416 = 3638. \dots$$

$$\textcircled{6} 3600 \text{ people per } km^2$$

3

$$\textcircled{7} 87,463 \div 162 = 539. \dots$$

$$\textcircled{8} 540 \text{ people per } km^2$$

4

$$\textcircled{9} 29,541 \div 21 = 1406. \dots$$

$$\textcircled{10} 1400 \text{ people per } km^2$$

14 ② Per Unit Quantity**1**

- ① $150 \times 5 = 750$
 ② $750ml$
 ③ $1200 \div 150 = 8$
 ④ $8m^2$

2

- ⑤ $0.9 \times 4.5 = 4.05$
 ⑥ $4.05kg$

15 ③ Speed**1**

- ① Bill
 ② Jenny
 ③ Jenny : $120 \div 25 = 4.8$
 Bill : $100 \div 20 = 5$
 Jenny : $4.8m$
 Bill : $5m$
 ④ Bill

2

- ⑤ A : $2250 \div 15 = 150$
 B : $3800 \div 25 = 152$
 ⑥ Bicycle B

16 ③ Speed**1**

- ① Speed = Distance \div Time
 ② $92 \div 2 = 46$

2

- ③ $2700 \div 15 = 180$
 ④ $180m$ per minute
 ⑤ $60 \div 8 = 7.5$
 ⑥ $7.5m$ per second

3

- ⑦ $2880 \div 3 = 960$
 ⑧ $960km$ per hour
 ⑨ $960 \div 60 = 16$
 ⑩ $16km$ per minute

17 ③ Speed**1**

① Distance = Speed \times Time

② $35 \times 3 = 105$

2

③ $68 \times 25 = 1700$

④ 1700 m

⑤ $340 \times 8 = 2720$

⑥ 2720 m

3

⑦ $200 \times 60 \times 2 = 24,000$

$24,000 \text{ m} = 24 \text{ km}$

⑧ 24 km

18 ③ Speed**1**

① $4.8 \text{ km} = 4800 \text{ m}$

$4800 \div 600 = 8$

② 8 minutes

2

③ $135 \div 45 = 3$

④ 3 hours

3

⑤ $3 \text{ km} = 3000 \text{ m}$

$3000 \div 150 = 20$

⑥ 20 minutes

19 ③ Speed**1**

① $4200 \div 60 = 70$

② 70 sheets

③ $480 \div 8 = 60$

④ 60 sheets

⑤ Machine A

2

⑥ A : $2000 \div 8 = 250$

B : $3120 \div 12 = 260$

⑦ Bicycle B

3

⑧ A : $525 \div 35 = 15$

B : $810 \div 45 = 18$

⑨ Pump B

20 9. Per Unit Quantity**1**

① $(65 + 82 + 73 + 80 + 75) \div 5 = 75$

② 75 points

③ $(14 + 8 + 17 + 24 + 11 + 13) \div 6 = 14.5$

④ 14.5 l

⑤ $(7 + 5 + 0 + 6 + 8) \div 5 = 5.2$

⑥ 5.2 kg

2

⑦ $530 \times 9 = 4770$

$4770 \text{ g} = 4 \text{ kg } 770 \text{ g}$

⑧ $4 \text{ kg } 770 \text{ g}$

3

⑨ A : $(40 + 45 + 50 + 65 + 55 + 60) \div 6 = 52.5$

B : $(45 + 35 + 55 + 65 + 65) \div 5 = 53$

⑩ Group B

21 9. Per Unit Quantity**1**

① A : $252 \div 35 = 7.2$

B : $425 \div 50 = 8.5$

② Vegetable garden B

2

③ $92,458 \div 134 = 689. \dots$

④ 690 people per km^2 **3**

⑤ $0.3 \times 180 = 54$

⑥ 54kg

4

⑦ $1200 \div 8 = 150$

⑧ 150m per minute

⑨ $1200 \div 200 = 6$

⑩ 6 minutes

22 ① Simplifying Fractions and Finding Common Denominators**1**

① $\frac{3}{4} = \frac{3 \times 5}{4 \times 5} = \frac{15}{20}$

② $\frac{8}{10} = \frac{8 \div 2}{10 \div 2} = \frac{4}{5}$

2

③ $\frac{2}{6} = \frac{1}{3} = \frac{5}{15}$ ④ $\frac{6}{10} = \frac{3}{5} = \frac{9}{15}$

⑤ $\frac{6}{18} = \frac{3}{9} = \frac{1}{3}$ ⑥ $\frac{8}{24} = \frac{4}{12} = \frac{2}{6}$

⑦ $\frac{5}{20} = \frac{1}{4} = \frac{3}{12}$ ⑧ $\frac{9}{36} = \frac{3}{12} = \frac{1}{4}$

⑨ $\frac{8}{28} = \frac{2}{7} = \frac{4}{14}$ ⑩ $\frac{12}{24} = \frac{2}{4} = \frac{8}{16}$

23 ① Simplifying Fractions and Finding Common Denominators**1**

① simplifying a fraction

② GCF

③ $\frac{36}{54} = \frac{18}{27} = \frac{6}{9} = \frac{2}{3}$

④ $\frac{36}{54} = \frac{36 \div 18}{54 \div 18} = \frac{2}{3}$

2

⑤ $\frac{3}{24} = \frac{1}{8}$ ⑥ $\frac{18}{45} = \frac{2}{5}$

3

⑦ $\frac{2}{9}$ ⑧ $\frac{3}{25}$

⑨ $1\frac{2}{5}$ ⑩ $2\frac{6}{7}$

24 ① Simplifying Fractions and Finding Common Denominators**1**

① common

② $\frac{4}{5} = \frac{4 \times 4}{5 \times 4} = \frac{16}{20}$

③ $\frac{3}{4} = \frac{3 \times 5}{4 \times 5} = \frac{15}{20}$

④ $\frac{4}{5}$

2

⑤ $(\frac{5}{15}, \frac{6}{15})$ ⑥ $(\frac{14}{21}, \frac{15}{21})$

⑦ $(\frac{5}{16}, \frac{4}{16})$ ⑧ $(\frac{28}{30}, \frac{9}{30})$

⑨ $(\frac{15}{30}, \frac{18}{30}, \frac{25}{30})$

⑩ $(\frac{45}{60}, \frac{18}{60}, \frac{25}{60})$

25 ② Addition and Subtraction of Fractions

$$\textcircled{1} \frac{2}{3} - \frac{1}{2} = \frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$

2

$$\textcircled{2} \frac{7}{10}$$

$$\textcircled{3} \frac{7}{8}$$

$$\textcircled{4} \frac{35}{36}$$

$$\textcircled{5} \frac{17}{18}$$

$$\textcircled{6} \frac{1}{8}$$

$$\textcircled{7} \frac{4}{15}$$

$$\textcircled{8} \frac{13}{72}$$

$$\textcircled{9} \frac{1}{14}$$

$$\textcircled{10} \frac{7}{24}$$

26 ② Addition and Subtraction of Fractions

$$\textcircled{1} \frac{1}{12} + \frac{3}{4} = \frac{1}{12} + \frac{9}{12} = \frac{10}{12} = \frac{5}{6}$$

$$\textcircled{2} \frac{9}{10} - \frac{1}{15} = \frac{27}{30} - \frac{2}{30} = \frac{25}{30} = \frac{5}{6}$$

2

$$\textcircled{3} \frac{1}{2}$$

$$\textcircled{4} \frac{3}{4}$$

$$\textcircled{5} \frac{15}{14}$$

$$\textcircled{6} \frac{1}{5}$$

$$\textcircled{7} \frac{1}{2}$$

$$\textcircled{8} \frac{1}{6}$$

$$\textcircled{9} \frac{11}{15}$$

$$\textcircled{10} \frac{19}{36}$$

27 ② Addition and Subtraction of Fractions

◆

$$\textcircled{1} 1\frac{9}{10}$$

$$\textcircled{2} 1\frac{2}{5}$$

$$\textcircled{3} 6\frac{1}{6}$$

$$\textcircled{4} 8\frac{1}{3}$$

$$\textcircled{5} 1\frac{1}{12}$$

$$\textcircled{6} \frac{1}{2}$$

$$\textcircled{7} 1\frac{13}{28}$$

$$\textcircled{8} \frac{7}{15}$$

$$\textcircled{9} 2\frac{7}{8}$$

$$\textcircled{10} 2\frac{1}{4}$$

28 ② Addition and Subtraction of Fractions**1**

$$\textcircled{1} \frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

$$\textcircled{2} \frac{7}{12} m$$

2

$$\textcircled{3} \frac{3}{4} = \frac{21}{28}, \frac{6}{7} = \frac{24}{28}$$

$$\frac{24}{28} - \frac{21}{28} = \frac{3}{28}$$

$$\textcircled{4} \text{red ribbon is longer by } \frac{3}{28} m$$

3

$$\textcircled{5} \frac{5}{6} + 1\frac{4}{15} = \frac{25}{30} + 1\frac{8}{30} = 1\frac{33}{30} = 2\frac{3}{30} = 2\frac{1}{10}$$

$$\textcircled{6} 2\frac{1}{10} \text{ hours}$$

4

$$\textcircled{7} 1\frac{2}{5} - (\frac{1}{2} + \frac{1}{4}) = \frac{28}{20} - \frac{10}{20} - \frac{5}{20} = \frac{13}{20}$$

$$\textcircled{8} \frac{13}{20} km$$

29 10. Addition and Subtraction of Fractions

① $\frac{9}{15} = \frac{3}{5} = \frac{6}{10}$ ② $\frac{35}{42} = \frac{5}{6} = \frac{10}{12}$

②

③ $\frac{8}{13}$ ④ $3\frac{3}{4}$

③

⑤ $(\frac{5}{12}, \frac{3}{12})$ ⑥ $(\frac{9}{18}, \frac{10}{18})$

⑦ $(1\frac{9}{12}, 2\frac{10}{12})$ ⑧ $(\frac{12}{24}, \frac{20}{24}, \frac{15}{24})$

④

⑨ $\frac{2}{8}, \frac{3}{12}, \frac{4}{16}, \frac{5}{20}$

⑤

⑩ A
 (A : $\frac{5}{6} = \frac{25}{30}$ B : $\frac{7}{10} = \frac{21}{30}$)

30 10. Addition and Subtraction of Fractions

①

① $\frac{11}{12}$ ② $\frac{2}{15}$

③ $\frac{3}{4}$ ④ $\frac{8}{15}$

⑤ $2\frac{1}{9}$ ⑥ $\frac{3}{10}$

⑦ $\frac{1}{12}$ ⑧ $1\frac{1}{8}$

②

⑨ $\frac{5}{6} + \frac{2}{3} = \frac{5}{6} + \frac{4}{6} = \frac{9}{6} = 1\frac{3}{6} = 1\frac{1}{2}$

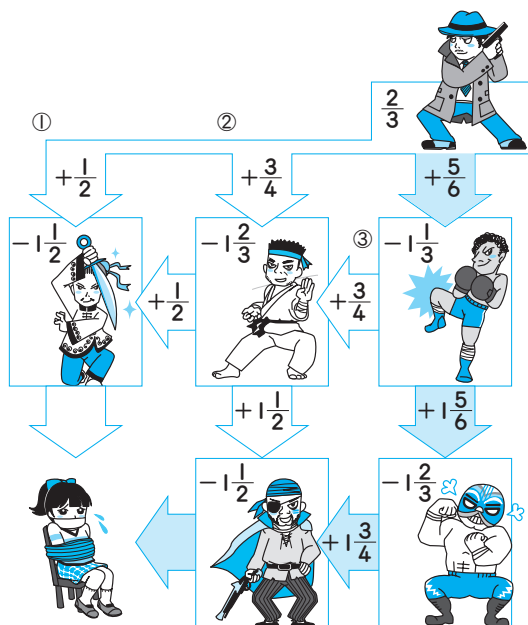
⑩ $1\frac{1}{2} \ell$

③

⑪ $3\frac{1}{5} - 2\frac{2}{3} = \frac{48}{15} - \frac{40}{15} = \frac{8}{15}$

⑫ Jack, $\frac{8}{15}$ kg more

31 Rescue Mission!



① $\frac{2}{3} + \frac{1}{2} = \frac{7}{6} \rightarrow \frac{7}{6} - 1\frac{1}{2} \rightarrow \times$

② $\frac{2}{3} + \frac{3}{4} = \frac{17}{12} \rightarrow \frac{17}{12} - 1\frac{2}{3} \rightarrow \times$

③ $\frac{2}{3} + \frac{5}{6} = \frac{9}{6} \rightarrow \frac{9}{6} - 1\frac{1}{3} = \frac{1}{6} \rightarrow \frac{1}{6} + \frac{3}{4} = \frac{11}{12} \rightarrow \frac{11}{12} - 1\frac{2}{3} \rightarrow \times$

32 🧹 Keeping a Park Clean

①

① $198 + 12 = 210$
 $210 \div 5 = 42$
 $42 \times 4 - 12 = 156$

② Large cranes 42
 Small cranes 156

②

③ $12 \div 0.8 = 15$
 $15 \times 1.8 = 27$

④ Potatoes 27kg
 Onions 15kg

33 Check(4)**1**

① 48 ② 4

2

③ $(\frac{10}{20}, \frac{12}{20}, \frac{14}{20})$

3

④ $\frac{3}{4}$ ⑤ $1\frac{1}{2}$

⑥ $\frac{5}{12}$ ⑦ $\frac{2}{9}$

4

⑧ $126 \div 6 = 21$

⑨ 21 pages

5

⑩ South Town : $52,090 \div 74 = 703. \dots$

North Town : $27,650 \div 43 = 643. \dots$

⑪ South Town

34 ① Fractions and Division**1**

① $3 \div 7 = \frac{\boxed{3}}{\boxed{7}}$

2

② $\frac{6}{11}$ ③ $\frac{13}{19}$

④ $1\frac{3}{5} (\frac{8}{5})$ ⑤ $\frac{45}{9} (5)$

3

⑥ $\frac{1}{6} = 1 \div \boxed{6}$ ⑦ $\frac{7}{8} = \boxed{7} \div 8$

⑧ $\frac{10}{7} = \boxed{10} \div 7$

⑨ $\frac{19}{12} = 19 \div \boxed{12}$

35 ① Fractions and Division**1**

① $500 \div 300 = 1\frac{2}{3}$

② $1\frac{2}{3}$ (or $\frac{5}{3}$)

③ $100 \div 300 = \frac{1}{3}$

④ $\frac{1}{3}$

2

⑤ $12 \div 25 = \frac{12}{25}$

⑥ $\frac{12}{25}$

⑦ $11 \div 8 = \frac{11}{8} = 1\frac{3}{8}$

⑧ $1\frac{3}{8}$ (or $\frac{11}{8}$)

36 ② Fractions, Decimal Numbers, and Whole Numbers**1**

① $4 \div 5 = \boxed{0.8}$ ② $4 \div 5 = \frac{\boxed{4}}{\boxed{5}}$

2

③ $\frac{1}{4}, \frac{7}{8}$

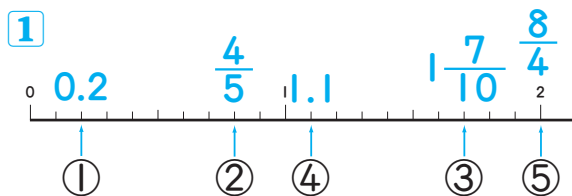
④ $\frac{1}{3}, \frac{4}{9}$

3

⑤ 0.75 ⑥ 1.2

⑦ 1.375 ⑧ $\frac{9}{10}$

⑨ $\frac{1}{25}$ ⑩ $2\frac{3}{100}$

37 ② Fractions, Decimal Numbers, and Whole Numbers

②

⑥ $\frac{4}{5} < 0.81$ ⑦ $0.5 > \frac{4}{9}$

⑧ $\frac{3}{4} = 0.75$ ⑨ $0.16 < \frac{1}{6}$

⑩ $\frac{7}{8} > 0.87$

38 ||. Fractions and Decimal Numbers

①

① $\frac{4}{9}$

② $3\frac{6}{7} (\frac{27}{7})$

②

③ 0.3

④ 4.5

⑤ $\frac{1}{25}$

⑥ $\frac{5}{1} (\frac{10}{2}, \dots)$

③

⑦ 0.24

⑧ $1\frac{8}{9}$

④

⑨ $21 \div 13 = \frac{21}{13} = 1\frac{8}{13}$

⑩ $1\frac{8}{13} (\frac{21}{13})$

39 ① Relative Value and Percentage

①

① Relative Value

= Compared Quantity \div Base Quantity

② $18 \div 20 = 0.9$

②

③ $21 \div 30 = 0.7$

④ 0.7

⑤ $16 \div 25 = 0.64$

⑥ 0.64

⑦ Timmy

③

⑧ 0.5

⑨ 0.75

⑩ 1.5

40 ① Relative Value and Percentage

①

① %

② percentage

②

③ 3%

④ 49%

⑤ 60%

⑥ 153%

③

⑦ 0.28

⑧ 0.5

⑨ 1.6

⑩ 0.007

④

⑪ $42 \div 50 = 0.84$

⑫ 84%

41 ② Problems involving Percentage**1**

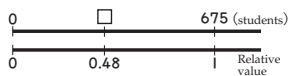
① Compared Quantity
= Base Quantity \times Relative Value

② $800 \times 0.3 = 240$

2

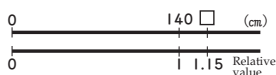
③ 675×0.48
= 324

④ 324 boys

**3**

⑤ 140×1.15
= 161

⑥ 161 cm

**42** ② Problems involving Percentage**1**

① $\square \times 1.6 = 56$

$\square = 56 \div 1.6$

= 35

② 35

2

③ $\square \times 0.72 = 90$

$\square = 90 \div 0.72$

= 125

④ 125 pages

43 ③ Graphs of Relative Values**1**

① 45%

② 25%

③ $\frac{1}{5}$

④ 3 times

2

⑤ 17%

⑥ $\frac{3}{25}$

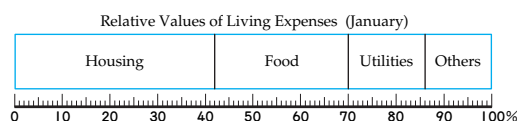
44 ③ Graphs of Relative Values**◆**

① 28

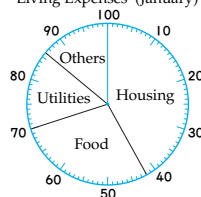
② 42

③ 16

④



⑤ Relative Values of Living Expenses (January)



45 | 2. Percentage and Graphs**1**

- ① 70.5% ② 200%
 ③ 0.39 ④ 0.041

2

- ⑤ $40 \times 0.15 = 6$
 ⑥ 6 students

3

- ⑦ $\square \times 0.76 = 38$
 $\square = 38 \div 0.76$
 $= 50$

- ⑧ 50 math problems

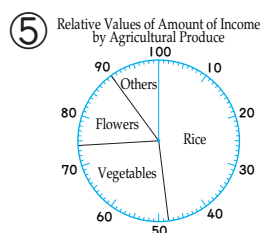
46 | 2. Percentage and Graphs**1**

① $\frac{1}{2}$

- ② 4 times

2

- ③ 26
 ④ 16

**47** ① Regular Polygons**1**

- ① BC, CD, DE, EA
 ② b, c, d, e
 ③ sides, angles

2

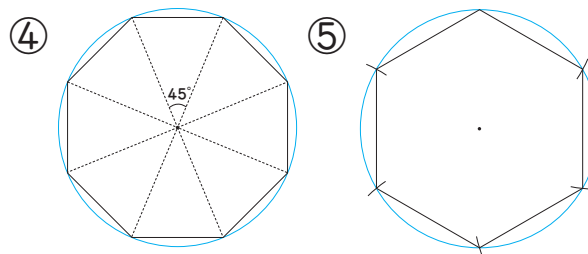
- ④ R
 ⑤ X
 ⑥ R
 ⑦ R
 ⑧ X

3

- ⑨ regular hexagon
 ⑩ equilateral triangle

48 ① Regular Polygons**1**

- ① 72°
 ② 54°
 ③ isosceles triangle

2

49 ② Circumference**1**

① $\text{Pi} = \text{Circumference} \div \text{Diameter}$

② $\text{Circumference} = \text{Diameter} \times \text{Pi}$

2

③ $20 \times 3.14 = 62.8$

④ 62.8cm

⑤ $8 \times 3.14 = 25.12$

⑥ 25.12cm

⑦ $18 \times 3.14 = 56.52$

⑧ 56.52cm

50 ② Circumference**1**

① $y = x \times 3.14$

② 6.28

③ 9.42

④ $2, 3, 4$ times

2

⑤ $57 \div 3 = 19$

⑥ 19cm

⑦ $24 \div 3 = 8$

⑧ 8cm

3

⑨ $96 \div 3 = 32$

⑩ 32cm

51 ③ Area of Circles**1**

① The Area of a Circle
 $= \text{Radius} \times \text{Radius} \times \text{Pi}$

② $3 \times 3 \times 3.14 = 28.26$

2

③ $8 \times 8 \times 3.14 = 200.96$

④ 200.96cm^2

⑤ $10 \times 10 \times 3.14 = 314$

⑥ 314cm^2

⑦ $16 \times 16 \times 3.14 = 803.84$

⑧ 803.84cm^2

52 ③ Area of Circles**1**

① $6 \times 6 \times 3.14 \div 2 = 56.52$

② 56.52cm^2

③ $4 \times 4 \times 3.14 \div 4 = 12.56$

④ 12.56cm^2

⑤ $10 \times 10 \times 3.14 = 314$

$5 \times 5 \times 3.14 = 78.5$

$314 - 78.5 = 235.5$

⑥ 235.5cm^2

2

⑦ $4 \times 3.14 \div 2 = 6.28$

$8 \times 3.14 \div 4 = 6.28$

$6.28 + 6.28 + 4 = 16.56$

⑧ 16.56cm

⑨ $2 \times 2 \times 3.14 \div 2 = 6.28$

$4 \times 4 \times 3.14 \div 4 = 12.56$

$6.28 + 12.56 = 18.84$

⑩ 18.84cm^2

53 | 3. Circles and Regular Polygons**1**

- ① regular octagon
 ② a : 45° b : 67.5°

2

- ③ $6 \times 3.14 = 18.84$
 ④ 18.84cm
 ⑤ $10 \times 3.14 = 31.4$
 ⑥ 31.4cm

3

- ⑦ 72° ⑧ 40°

4

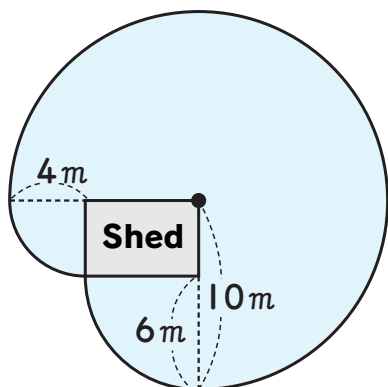
- ⑨ $42 \times 3.14 \times 60 = 7912.8$
 $7912.8\text{cm} = 79.128\text{m}$
 ⑩ 79m (80m)

54 | 3. Circles and Regular Polygons**1**

- ① $7 \times 7 \times 3.14 = 153.86$
 ② 153.86cm^2
 ③ $6 \times 6 = 36$, $3 \times 3 \times 3.14 = 28.26$
 $36 - 28.26 = 7.74$
 ④ 7.74cm^2
 ⑤ $8 \times 8 \times 3.14 \div 4 = 50.24$
 ⑥ 50.24cm^2

2

- ⑦ $40 \times 3.14 \div 2 = 62.8$
 $20 \times 3.14 = 62.8$
 $62.8 + 62.8 = 125.6$
 ⑧ 125.6cm
 ⑨ $20 \times 20 \times 3.14 \div 2 - 10 \times 10 \times 3.14 \div 2 = 471$
 $10 \times 10 \times 3.14 \div 2 = 157$
 $471 + 157 = 628$
 ⑩ 628cm^2

55 Moo! What should I do?

$$10 \times 10 \times 3.14 \times \frac{3}{4} = 235.5$$

$$6 \times 6 \times 3.14 \div 4 = 28.26$$

$$4 \times 4 \times 3.14 \div 4 = 12.56$$

$$235.5 + 28.26 + 12.56 = 276.32$$

Answer 276.32m^2

56 Check(5)**1**

- ① 0.875 ② 2.6
 ③ $\frac{23}{25}$ ④ $1\frac{2}{5}$

2

- ⑤ $21 \div 60 = 0.35$
 ⑥ 35%

3

- ⑦ $30 \times 3.14 \div 2 = 47.1$
 $20 \times 3.14 \div 2 = 31.4$
 $47.1 + 31.4 + 10 = 88.5$
 ⑧ 88.5cm
 ⑨ $15 \times 15 \times 3.14 \div 2 = 353.25$
 $10 \times 10 \times 3.14 \div 2 = 157$
 $353.25 + 157 = 510.25$
 ⑩ 510.25cm^2

57 5th Grade Review**1**

- ① 7, 4, 6, 3
② 5.087

2

- ③ 537.2 ④ 30.72 ⑤ 1.19
⑥ 0.72\ ⑦ 0.440 ⑧ $\overset{20}{1.96}$

3

- ⑨ $25 \div 4.5 = 5 \text{ R } 2.5$
⑩ 5 people
2.5m will be left

58 5th Grade Review**1**

- ① 1, 2, 4, 8 ② 1, 2, 3, 6

2

- ③ 6, 12, 18 ④ 40, 80, 120

3

- ⑤ odd numbers ⑥ even numbers

4

- ⑦ $1\frac{5}{12}$ ⑧ $5\frac{5}{6}$
⑨ $\frac{5}{16}$ ⑩ $2\frac{3}{4}$

59 5th Grade Review**1**

- ① $\frac{91}{100}$ ② $3\frac{7}{25}$
③ 0.75 ④ 0.625

2

- ⑤ 8:45 A.M.
⑥ 5 times
(8:00, 8:45, 9:30, 10:15, 11:00)

3

$$\textcircled{7} \frac{1}{4} + \frac{3}{5} = \frac{5}{20} + \frac{12}{20} = \frac{17}{20}$$

$$\textcircled{8} \frac{17}{20}$$

4

$$\textcircled{9} \frac{3}{4} = \frac{6}{8} \quad \frac{6}{8} - \frac{3}{8} = \frac{3}{8}$$

$$\textcircled{10} \frac{3}{8} \ell$$

60 5th Grade Review**1**

- ① $9 \times 8 \div 2 = 36$
② 36cm^2
③ $(5 + 8.2) \times 7 \div 2 = 46.2$
④ 46.2cm^2
⑤ $10 \times 10 \times 3.14 \div 2 - 5 \times 5 \times 3.14 \div 2 = 117.75$
 $5 \times 5 \times 3.14 \div 2 = 39.25$
 $117.75 + 39.25 = 157$
⑥ 157cm^2
⑦ $10 \times 10 \times 3.14 \div 4 - 5 \times 5 \times 3.14 \div 2 = 39.25$
⑧ 39.25cm^2

2

- ⑨ $25.12 \div 3.14 \div 2 = 4$
 $4 \times 4 \times 3.14 = 50.24$
⑩ 50.24cm^2

61 5th Grade Review**1**

- ① $5 \times 12 \times 6 = 360$
 ② 360cm^3
 ③ $7 \times 8 \times 6 + 7 \times 6 \times 4 = 504$
 ④ 504cm^3

2

- ⑤ $0.4 \times 0.6 \times 0.5 = 0.12$, $0.12\text{m}^3 = 120 \ell$
 $120 \div 15 = 8$
 ⑥ 8 minutes

3

- ⑦ $340 \times 7 = 2380$, $2380\text{m} = 2.38\text{km}$
 ⑧ 2.38km

4

- ⑨ $12 \div 4 = 3$, $12 \div 6 = 2$
 $3 + 2 = 5$
 ⑩ 5 hours

62 5th Grade Review**1**

- ① 52°
 ② 38°
 ③ 50°
 ④ 90°
 ⑤ 100°

2

- ⑥ $(6 + 3) \times 2 \times 3.14 - 6 \times 2 \times 3.14$
 $= 18 \times 3.14 - 12 \times 3.14$
 $= 6 \times 3.14 = 18.84$

- ⑦ 18.84cm

3

- ⑧ regular hexagon
 ⑨ equilateral triangle
 ⑩ equilateral triangle

63 5th Grade Review**1**

- ① 25 ② 9.8
 ③ 21 ④ 105

2

- ⑤ 19%
 ⑥ 0.215
 ⑦ 0.703
 ⑧ 1000%

3

- ⑨ $0.9, \frac{9}{10}$ ⑩ $0.125, \frac{1}{8}$

4

- ⑪ $76 \div 80 = 0.95$, 0.95
 ⑫ $512 \div 320 = 1.6$, 160%

64 5th Grade Review**1**

- ① $15 \div 8 = 1.875$
 $21 \div 12 = 1.75$

- ② garden at Mike's house

2

- ③ $12 \div 150 = 0.08$, $0.08 = 8\%$
 $100 - 8 = 92$
 ④ 92%

3

- ⑤ $84 \div 1.12 = 75$

- ⑥ 75kg

4

- ⑦ $1.20 \times x + 0.40 = 10$
 $x = (10 - 0.40) \div 1.20 = 8$

- ⑧ 8 cakes