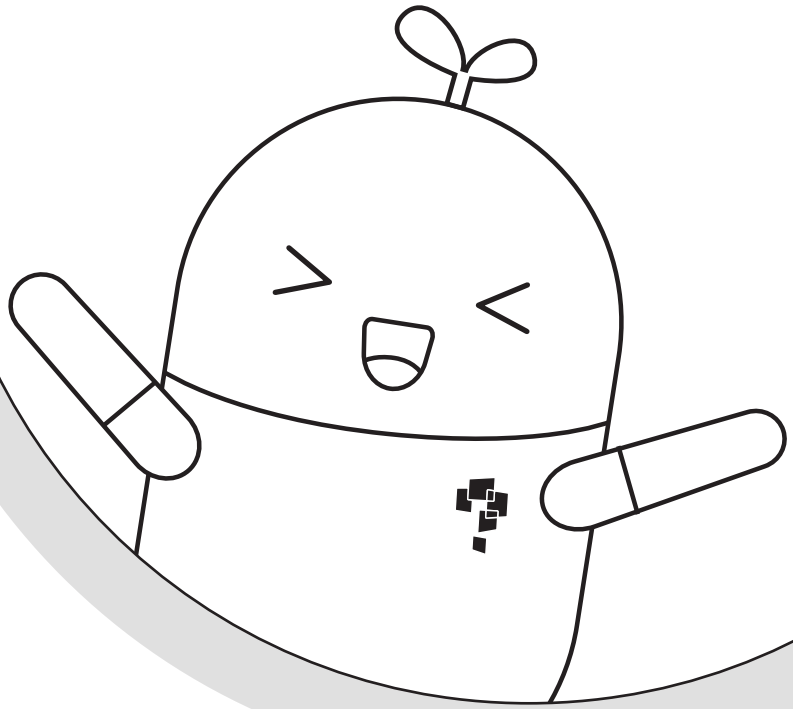
Answers



Think Academy

Basic Math

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G3 [B1] Numbers and Operations

Numbers to 100,000

1 1:$1,356$

Alternative:1356

2:$1,526$

Alternative:1526

3:$2,924$

Alternative:2924

4:$3,162$

Alternative:3162

5:$8,263$

Alternative:8263

2 (1) 400

(2) 1:4

2:2

3 1:$7,000+8$

Alternative:$7000+8$

2:$6,000+60$

Alternative:$6000+60$

3:$5,000+300$

Alternative:$5000+300$

4:$8,000+100+90$

Alternative:$8000+100+90$

5:$3,000+600+10+2$

Alternative:$3000+600+10+2$

4 (1) 80000

(2) 1:4

2:9

5 1:$22,132$

2:$42,634$

3:$62,152$

4:$63,154$

6 (1) $1,000$

(2) 1:2

2:7

7 (1) 800

(2) $5,000$

Alternative:5000

(3) 60

(4) 1:5

2:7

(5) 1:2

2:6

8 1:$4,000+5$

Alternative:$4000+5$

2:$2,000+40$

Alternative:$2000+40$

3:$3,000+600$

Alternative:$3000+600$

4:$5,000+300+80$

Alternative:$5000+300+80$

5:$1,000+800+20+7$

Alternative:$1000+800+20+7$

9 (1) 7

(2) 1:3

2:7

10 1:$41,231$

2:$62,234$

3:$71,237$

4:$73,234$

11 (1) $2,000$

(2) 1:9

2:7

12 1:$14,475$

2:$14,512$

3:$26,172$

4:$54,511$

13 1:$3,274$

Alternative:3274

2:$4,641$

Alternative:4641

3:5,264

Alternative:5264

4:5,475

Alternative:5475

5:6,152

Alternative:6152

Addition and Subtraction of Whole Numbers

1 (1) 7,765

(2) 9,118

(3) 7,564

(4) 9,115

2 (1) 18128

Alternative:18,128

(2) 19311

Alternative:19,311

(3) 40459

Alternative:40,459

(4) 46000

Alternative:46,000

3 (1) 15311

Alternative:15,311

(2) 34484

Alternative:34,484

(3) 13603

Alternative:$13,603$

(4) 18000

Alternative:$18,000$

4 (1) $15,890$

(2) $12,065$

(3) $10,183$

(4) $7,038$

5 (1) 400

(2) 2540

(3) 3038

6 (1) $1,800$

(2) $1,110$

(3) $3,088$

7 (1) 33396

Alternative:$33,396$

(2) 55525

Alternative:$55,525$

(3) 10252

Alternative:$10,252$

(4) 48000

Alternative:$48,000$

Estimation of Whole Numbers

1 (1) 5000

Alternative:$5,000$

(2) 9000

Alternative:$9,000$

(3) 71000

Alternative:$71,000$

(4) 81000

Alternative:$81,000$

2 (1) 4000

Alternative:$4,000$

(2) 7000

Alternative:$7,000$

(3) 61000

Alternative:$61,000$

(4) 78000

Alternative:$78,000$

3 (1) 90000

Alternative:$90,000$

(2) 60000

Alternative:$60,000$

4 (1) 90

(2) 80

(3) 100

(4) 40

5 (1) 120

(2) 120

(3) 160

(4) 80

6 (1) 1200

Alternative:$1,200$

(2) 8100

Alternative:$8,100$

(3) 57400

Alternative:$57,400$

(4) 85900

Alternative:$85,900$

7 (1) 70000

Alternative:$70,000$

(2) 20000

Alternative:$20,000$

8 (1) 50000

Alternative:$50,000$

(2) 10000

Alternative:$10,000$

Multiplication and Division of Whole Numbers

1 (1) $31R1$

(2) $15R3$

(3) $12R5$

(4) $32R1$

2 1:1, 2, 3, 4, 5

2:1

3:5

3 (1) $9R2$

(2) $12R2$

(3) $17R4$

(4) $20R3$

4 87

5 (1) 12

(2) 85

(3) 196

(4) 16

6 (1) 17

(2) 60

(3) 216

(4) 14

7 1:1, 2, 3, 4, 5

2:1

3:5

Odd and Even Number

1 1:Even

Alternative:even

2:Even

Alternative:even

3:Even

Alternative:even

4:Even

Alternative:even

5:Odd

Alternative:odd

6:Odd

Alternative:odd

2 2000

3 1:Odd

Alternative:odd

2:Even

Alternative:even

3:Even

Alternative:even

4:Even

Alternative:even

5:Even

Alternative:even

6:Even

Alternative:even

4 36 and 40

5 (1) A (2) B (3) A (4) B

Factors and Multiples

1 (1) 20

(2) 15

(3) 8

2 (1) $1, 2, 3$ and 6 are common factors.

6 is the greatest common factor.

(2) $1, 2$ and 4 are common factors.

4 is the greatest common factor.

3 (1) 1, 2, 3 and 6 are common factors.

6 is the greatest common factor.

(2) 1 and 13 are common factors.

13 is the greatest common factor.

4 (1) 1, 2 and 4 are common factors.

4 is the greatest common factor.

(2) $1, 2, 5$ and 10 are common factors.

10 is the greatest common factor.

5 (1) 1:12

2:24

(2) 1:10

2:20

6 (1) $1, 3, 9, 27$

(2) $1, 2, 13, 26$

7 (1) 30

(2) 20

(3) 8

8 (1) 15

(2) 48

(3) 21

9 (1) 40

(2) 12

(3) 6

10 (1) 1 and 19

(2) $1, 2, 7, 14$

11 (1) D (2) C

12 (1) B (2) D

13 (1) 1:24

2:48

(2) 1:12

2:24

14 (1) 16

(2) 30

(3) 63

15 (1) 1:6

2:12

(2) 1:8

2:16

16 (1) 15

(2) 27

(3) 70

17 (1) D (2) C

18 (1) 1, 3, 7 and 21

(2) $1, 17$

Knowing Fraction and Comparing Fraction

1 (1) 1:$\frac{5}{8}$

2:8

3:5

(2) 1:$\frac{3}{8}$

2:8

3:3

2 (1) >

(2) <

(3) >

(4) <

3 (1) <

(2) >

(3) >

(4) <

4 (1) $\frac{1}{5}$

(2) $\frac{2}{5}$

5 (1) <

(2) <

(3) >

(4) >

6 (1) <

(2) >

(3) <

(4) <

Addition and Subtraction of Like Fractions

1 (1) $\frac{7}{9}$

(2) $\frac{4}{5}$

(3) $\frac{9}{10}$

(4) $\frac{14}{17}$

2 (1)

(2) $\frac{5}{7}$

(3) $\frac{7}{9}$

(4) 1

(5) $\frac{10}{19}$

3 (1) $\frac{7}{10}$

(2) 1

(3) $\frac{2}{7}$

(4) $\frac{5}{12}$

4 (1) $\frac{4}{7}$

(2) $\frac{5}{9}$

(3) $\frac{7}{8}$

(4) $\frac{6}{13}$

5 (1) $\frac{1}{2}$

(2) $\frac{1}{3}$

(3) $\frac{2}{5}$

(4) $\frac{1}{4}$

(5) $\frac{11}{17}$

6 (1) $\frac{7}{11}$

(2) $\frac{2}{5}$

(3) $\frac{16}{23}$

7 $\frac{2}{7}$, $\frac{4}{7}$, $\frac{6}{7}$, $\frac{2}{7}+\frac{4}{7}=\frac{6}{7}$.

8 (1) $\frac{12}{17}$
(2) $\frac{2}{3}$
(3) $\frac{1}{2}$
(4) $\frac{1}{5}$
(5) $\frac{16}{27}$

9 (1) $\frac{7}{9}$
(2) $\frac{3}{7}$
(3) $\frac{7}{19}$

10 (1) $\frac{2}{3}$
(2) $\frac{4}{5}$
(3) $\frac{2}{7}$
(4) $\frac{5}{13}$
(5) $\frac{4}{9}$

G3 [B2] Geometry

Identify Angles

1 ✓ × × ✓

2 (1) 1:a

Alternative:c

2:c

Alternative:a

(2) 1:b

Alternative:d

2:d

Alternative:b

3 C 4 ✓ ✓ × ×

5 $\angle AOB$, $\angle AOC$, $\angle BOC$, $\angle BOD$, $\angle COD$

6 (1) 1:b

Alternative:c

2:c

Alternative:b

(2) 1:a

Alternative:d

2:d

Alternative:a

Parallel and Perpendicular

1 1:DE

2:AB

3:CD

2 4

3 × ✓ × ✓ × ✓

4 2

5 2

6 2

7 2

8 C

9 4

10 1:d

2:a

11 1

12 2

13 5

14 × × × × ✓ × 15 B 16 ✓ × ✓ 17 ✓ × ✓ × ×

18 2

19 0

Area of Rectangle and Square

1 6

2 1950

3 8

4 300

5 1:52

2:144

6 1:12

2:48

7 304

8 800

9 588

10 1:15

2:225

11 1:44

2:117

12 5

13 140

14 1:32

2:64

15 192

16 (1)

	①	②	③	④
Length (cm)	5	4	5	6
Width (cm)	3	2	4	2
Area (cm^2)	15	8	20	12

Area of a rectangle = length × width.

(2)

	①	②	③
Side Length (cm)	3	2	5
Area (cm)	9	4	25

Area of a square = side length × side length.

17 1:80

2:400

18 1:100

2:600

19 1:17

2:68

20 500

21 450

22 1:76

2:345

23 1:8

2:4

24 1:52

2:169

25 300

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G3 [B3] Word Problems

Addition and Subtraction within 100,000

1 $35,233$

2 $96,267$

3 $22,792$

4 $29,337$

5 $27,981$

6 $46,093$

Time Calculation

1 25

2 39

3 32

4 $1:5$

$2:35$

5 1:4

2:5

6 41

7 1:3

2:5

8 75

Money Calculation

1 1:8

2:59

2 1:17

2:11

3 1:29

2:57

4 1:8

2:44

5 1:6

2:52

6 1:20

2:35

7 1:12

2:60

8 1:17

2:20

9 1:9

2:5

10 1:26

2:80

Mean, Median, and Mode

1 16

2 23

3 (1) 32

(2) 600

(3) 10

4 40

5 15 eggs

6 158 cm

7 16

8 91

9 31

10 (1) 10

(2) 9 and 10

(3) 9

11 400 dollars

12 (1) 9

(2) 9

13 1:3

2:8

14 350 dollars

15 6 dollars

16 61

Basic Age Problems

1 A

2 8 years old

3 B

4 9

5 17 years old

6 C 7 C

Advanced Math

Think Academy

G3 [A1] Numbers and Operations

Whole Number Mixed Operation

1 (1) 250

(2) 6500

(3) 380

(4) 5400

2 (1) 536

(2) 601

3 (1) 255

(2) 796

(3) 123

4 (1) 400

(2) 100

5 (1) 442

(2) 219

6 (1) 425

(2) 4200

(3) $1,323$

7 (1) 1700

(2) 8000

8 (1) 4

(2) 32

(3) 1000

9 (1) 219

(2) 833

(3) 107

10 (1) 1:400

2:4

3:10000

4:100

5:10100

(2) 13500

(3) 5488

11 (1) 2600

(2) 100

12 (1) 200

(2) 200

13 (1) 1:300

2:4

3:7500

4:100

5:7400

(2) 12000

(3) 1615

14 (1) 2

(2) 1000

(3) 1000

15 (1) 522

(2) 1800

(3) 882

16 (1) 900

(2) 27000

17 (1) 2400

(2) 1600

18 (1) 700

(2) 100000

19 (1) 2

(2) 80

(3) 1000

Long Multiplication and Long Division

1 (1) 5280

(2) 6075

(3) 34500

(4) 20400

2 (1) 8800

(2) 9720

3 (1) $6R42$

(2) $21R24$

4 (1) 940

(2) 567

(3) 580

5 (1) 20502

(2) 4140

(3) 39000

6 1:3872

2:35

3:1

7 1:4

2:5

3:1

4:56

5:27

6:8

7:17

8:17

8 (1) 2948

(2) 11088

(3) 13104

9 450

10 (1) 27

(2) 1:19

2:21

(3) 1:27

2:11

11 (1) 8120

(2) 26460

12 1:35, 325

2:150, 993

13 1:77224

Alternative:77, 224

2:90054

Alternative:90, 054

3:31100

Alternative:31, 100

4:173628

Alternative:$173,628$

5:40066

Alternative:$40,066$

6:234857

Alternative:$234,857$

14 (1) 8120

(2) 11200

(3) 26100

15 (1) $7R1$

(2) 52

16 (1) 1127

Alternative:$1,127$

(2) 1007

Alternative:$1,007$

17

$$\begin{array}{r} 65 \\ \times\ 31 \\ \hline 65 \\ 195 \\ \hline 2015 \end{array}$$

18 (1) 490

(2) 581

19 (1) 13

(2) $4R28$

20 (1) $1:6$

$2:6$

(2) $1:7$

$2:51$

Improper Fractions and Mixed Numbers

1 (1) $1\frac{2}{3}$

(2) $3\frac{1}{2}$

(3) $4\frac{2}{3}$

(4) $5\frac{2}{5}$

2 (1) $1:2\frac{1}{2}$

$2:2\frac{3}{5}$

$3:3\frac{5}{7}$

(2) $1:\frac{13}{3}$

$2:\frac{14}{5}$

$3:\frac{89}{9}$

3 (1) $\frac{24}{5}$

(2) $\frac{23}{8}$

(3) $\frac{73}{10}$

(4) $\frac{53}{4}$

4 $1:1\frac{5}{7}$

2: $5\frac{1}{3}$
3: $\frac{20}{9}$
4: $\frac{26}{3}$

5 1: $3\frac{11}{28}$
2: $9\frac{7}{15}$
3: $10\frac{39}{71}$
4: $1\frac{28}{99}$

6 (1) $\frac{35}{8}$
(2) $\frac{17}{3}$
(3) $\frac{17}{5}$
(4) $\frac{47}{6}$
(5) $\frac{29}{7}$
(6) $\frac{34}{13}$
(7) $\frac{90}{7}$
(8) $\frac{50}{11}$
(9) $\frac{57}{14}$
(10) $\frac{14}{3}$

7 1: $7\frac{1}{5}$
2: $2\frac{4}{9}$
3: $\frac{61}{8}$
4: $\frac{27}{7}$

8 1: $6\frac{1}{7}$
2: $7\frac{3}{8}$

3: $\frac{25}{6}$
4: $\frac{32}{9}$

9 (1) $\frac{11}{4}$
(2) $\frac{26}{7}$
(3) $\frac{9}{2}$
(4) $\frac{12}{5}$

10 (1) D (2) B (3) B

11 1: $4\frac{1}{9}$
2: $8\frac{3}{4}$
3: $\frac{26}{7}$
4: $\frac{80}{11}$

12 1: $3\frac{4}{11}$
2: $12\frac{6}{7}$
3: $5\frac{28}{47}$
4: $10\frac{7}{31}$

13 (1) $1\frac{8}{9}$
(2) $6\frac{4}{5}$

14 (1) C (2) B (3) C

15 (1) $1\frac{3}{4}$
(2) $2\frac{1}{6}$
(3) $3\frac{3}{5}$

(4) $7\frac{7}{9}$

Equivalent Fractions and Simplest Form

1 1: $\frac{4}{11}$
2: $\frac{2}{9}$
3: $\frac{5}{8}$
4: $\frac{2}{3}$

2 (1) $\frac{1}{3}$
(2) $\frac{2}{3}$
(3) $\frac{3}{4}$
(4) $\frac{3}{5}$
(5) $\frac{1}{5}$

3 (1) $2, 6, 14$
(2) $2, 9$
(3) $5, 5, 20$
(4) 9
(5) 14
(6) 7

4 (1) $4, 12, 20$
(2) $3, 6$
(3) $3, 3, 30$
(4) 21
(5) 6
(6) 4

5 (1) $5,\ 15,\ 20$

(2) $2,\ 6$

(3) $5,\ 5,\ 25$

(4) 21

(5) 8

(6) 12

6 (1) $\frac{1}{3}$

(2) $\frac{6}{13}$

(3) $\frac{3}{4}$

(4) $\frac{3}{7}$

(5) $\frac{5}{9}$

7 (1) $\frac{3}{16}$

(2) $\frac{3}{5}$

(3) $\frac{1}{3}$

(4) $\frac{3}{7}$

(5) $\frac{5}{14}$

(6) $\frac{5}{11}$

8 (1) $\frac{1}{8}$

(2) $\frac{3}{25}$

(3) $\frac{7}{25}$

(4) $\frac{1}{3}$

9 (1) $\frac{1}{2}$

(2) $\frac{1}{8}$

(3) $\frac{2}{5}$

(4) $\frac{1}{3}$

(5) $\frac{3}{8}$

10 1:$\frac{11}{12}$

2:$\frac{19}{24}$

3:$\frac{3}{4}$

4:$\frac{3}{8}$

Letters Representing Numbers

1 1:$e+4f$

2:$12q-5e$

3:$4m-d^3+3a-2$

4:$3ef+6f+9e$

2 (1) $2a-6c$

(2) $2c+b$

(3) $20+2c-2d$

(4) $3+3a-3b$

(5) $66+4c-3d$

3 1:$7m-2n$

2:$2g+3a$

3:$26-4a+2c^3$

4:$6a+2-7ab-5b$

4 1:$7x$

2:rn

3:$7a-5c$

4:r^4

5:$4m$

6:$6b+a$

7:e^3

8:rq

9:$5y-3x$

10:q^4

5 (1) $10a-4$

(2) $6a+4b$

(3) $10a-10c+20b$

(4) $16wa+8wb$

(5) $6ac+12ad$

6 1:$8a+14$

2:$5x+5y$

3:$3am+3an$

4:$3ay+2by$

7 (1) $7c-6d$

(2) $3w+v$

(3) $4ab$

(4) $5e+2c$

(5) $2a-3ab$

(6) $2h^2+g$

8 (1) $4ab+3c-6$

(2) $2xy-11$

(3) $3t-3e+27$

(4) $6ab+10c+10$

(5) $3b-2a-5$

9 1:$7c+4d$

2:$8a-2b$

3:$26-a^2-2c$

4:$6xy+11y+9$

10 (1) $12a+4b$

(2) $w+2e$

(3) hg

(4) $19bg$

(5) $ab-c$

(6) $6a^2b$

(7) $28h^2+9k^2$

11 (1) $6a+12$

(2) $3a+3b$

(3) $6c-8$

(4) $2ag+2bg$

(5) $3ah+5bh$

12 (1) $4ab+3c-6$

(2) $2xy-11$

(3) $3t-3e+27$

(4) $6ab+10c+10$

(5) $3b-2a-5$

13 1:$4a$

2:$3b$

3:$5a-4b$

4:a^3

5:$2x$

6:$5b-2d$

7:$5c^3$

8:$5xb$

9:$2a+2c$

10:$5d^3$

14 (1) $3a+10b$

(2) $8-8a^2+12ab$

(3) $11m+n$

(4) $10xy-25x+16y$

15 (1) $3a+b$

(2) $3hg$

(3) $6a+2b$

(4) $2c-4d$

(5) $2a-3b+2cd$

(6) $6a^2-5b$

16 (1) $5a+5b$

(2) $16wn$

(3) $4+2v-3b$

(4) $24a^2b$

17 (1) $6a+12$

(2) $3a+3b$

(3) $6c-8$

(4) $2ag+2bg$

(5) $3ah+5bh$

18 (1) $9a+5b$

(2) $3c+2d$

(3) $h+4g$

(4) $2bw$

(5) $3ab-2c$

(6) $3a^2$

19 (1) $15a+20b-10c$

(2) $32ac-8ad$

(3) $9a-6a^2+12ab$

(4) $16c-8d$

(5) $34-4a-4ab$

20 (1) $10x+6y$

(2) $4a-8b$

(3) $4t+a-13b$

(4) $19x+6x^2y-3y$

21 (1) $10a-4$

(2) $6a+4b$

(3) $10a-10c+20b$

(4) $16wa+8wb$

(5) $6ac+12ad$

22 1:$3a+2b$

2:$8b-2c$

3:$20-a^2-c$

4:$5ab+7a-2b+7$

23 (1) $a+3b$

(2) $8c-3d$

(3) $30+3a+b$

(4) $5c-2a$

(5) $4ab+3a+5$

24 1:$20m+15n$

2:$21m+7n$

3:$6a^2+12ab$

4:$2m^2+2nm$

25 1:$9a+6ab$

2:$14ax+4bx$

3:$6qm+6pm$

4:$8m^2+10mn$

26 1:$6a-3b$

2:$4a-4b$

3:$11-m^2-2n$

4:$5mn+6m-3n$

27 (1) $2a-6c$

(2) $2c+b$

(3) $20+2c-2d$

(4) $3+3a-3b$

(5) $66+4c-3d$

28 1:$10a-2d$

2:$4m-6a$

3:$14-m^2+2c$

4:$6ab+4a-3b-2$

29 (1) $3a+3b$

(2) $2abx$

(3) $4x+2$

(4) $2bcx$

30 1:$3c$

2:$2a$

3:$a+2b+3c$

4:c^4

5:$5k$

6:$2m-4a+2c$

7:ac

8:$7b$

9:$2x-6a$

10:n^2

31 1:$16a+20as$

2:$6an+2abn$

3:$8x^2+4xy$

4:$9x^2 + 15xy$

32 (1) $15a + 20b - 10c$

(2) $32ac - 8ad$

(3) $9a - 6a^2 + 12ab$

(4) $16c - 8d$

(5) $34 - 4a - 4ab$

33 (1) $2t - 2$

(2) $x - 3$

(3) $4t - 5r + 1$

(4) $2x^2y + 8$

34 (1) $4m + 3b$

(2) $12ab$

(3) $5a + 2$

(4) $12f^2e$

35 1:$9b + 6a$

2:$4m + 8n$

3:$2bx + 2by$

4:$12ma + 6na$

36 1:$8a$

2:$3e$

3:$5e - 4f$

4:x^3

5:$5g$

6:$8g-2d$

7:$2v^3$

8:$3ab$

9:$3d-3a$

10:$2d^3$

37 (1) $2s+r$

(2) $9ab$

(3) $5a-3$

(4) $6s^2n$

38 (1) $9a-6$

(2) $3x-12$

(3) $6-m-n$

(4) $8+2a^2$

39 1:$3b$

2:$5s$

3:$x+3y$

4:b^4

5:$3n$

6:$10m+2b$

7:a^2

8:$7r$

9:$5x-6a$

10:n^3

40 (1) $3m+2a$

(2) $8as$

(3) $4m+n$

(4) $42a^2b$

41 (1) $a+3b$

(2) $8c-3d$

(3) $30+3a+b$

(4) $5c-2a$

(5) $4ab+3a+5$

42 1:$4m+2$

2:$3a-3b$

3:$8mx-4nx$

4:$ay+by$

43 (1) $3a+10b$

(2) $8-8a^2+12ab$

(3) $11m+n$

(4) $10xy-25x+16y$

44 (1) $7c-6d$

(2) $3w+v$

(3) $4ab$

(4) $5e+2c$

(5) $2a-3ab$

(6) $2h^2+g$

G3 [A2] Geometry

Parallelogram

1 24 cm^2

2 C

3 5 cm

4 C

5 7m^2

6 1:168

2:8

7 1:10

2:15

8 A

9 8

10 A 11 B

Trapezoid

1 4

2 1:3

2:1

3:2

3 240

4 15

5 1:6

2:3

3:2

6 150

Triangle

1 115

2 C

3 8 cm

4 5 cm

5 40 cm^2; 36 cm^2; 16 cm^2

6 360

7 540

8 B

9 5

10 30

11 1:①⑤

2:②③④⑥

12 3

Strategy to Find the Perimeter

1 46 cm

2 D

3 (1) 116 cm

(2) 46 cm

4 $16\ \mathrm{m}$

5 C 6 B 7 C 8 A 9 C 10 A

11 (1) 90 cm

(2) 100 m

12 72 cm

13 70 cm

14 (1) 112 cm

(2) 44 cm

Strategy to Solve the Area

1 $58.5\ \mathrm{m}^2$

2 $20\ \mathrm{cm}^2$

3 $63\ \mathrm{m}^2$

4 $26\ \mathrm{cm}^2$

5 $32\ \mathrm{m}^2$

6 $2600\ \mathrm{cm}^2$

7 **33** cm^2

8 **12** m^2

9 **195** cm^2

10 **12** m^2

G3 [A3] Word Problems

Sum and Difference

1 15; 21

2 30; 40

3 34; 29.

4 15; 12.

5 13; 11.

6 33; 29.

7 20; 24.

8 22; 27

9 21; 18.

10 23; 30.

11 60; 80

12 17; 11.

13 13; 22.

14 13; 18

15 17; 12.

16 18; 24

17 45; 53

18 46; 41.

19 21; 26

20 48; 60

21 26; 31.

22 16; 23.

Sum and Multiple

1 1:8

2:88

2 168

3 1:360

2:40

4 1:30

2:6

5 1:15

2:75

6 1:180

2:20

7 1:15

2:75

8 32

9 1:90

2:10

10 112

Difference and Multiple

1 28; 4

2 1:3

2:9

3 1:30

2:210

4 360

5 5; 30

6 12

7 420

8 30

9 1:12

2:48

10 50

Interval

1 102

2 36

3 7

4 27

5 41

6 28

7 4 times .

8 21

9 33

10 44

11 16

12 40

13 C

Chicken and Rabbit Problem & Find the Unit

1 1:16

2:12

3:9

4:56

2 1:4

2:24

3:10

4:30

3 5 chickens; 3 rabbits

4 7 chickens; 9 rabbits

5 50 dollars

6 70

7 60 minutes.

8 40 dollars

9 56

Word Problems of Addition and Subtraction of Fractions

1 $\frac{5}{9}$

2 $\frac{7}{10}$

3 $4;\ \frac{1}{2}$

4 $7;\ \frac{7}{9}.$

5 $3;\ \frac{3}{8}.$

6 $3;\ \frac{1}{2}.$

7 $13;\ \frac{13}{50}$

8 $3;\ \frac{3}{5}$

9 $\frac{9}{11}$

10 $11;\ \frac{11}{30}$

G3 [A4] Combinatorics

Operation without Numbers

1 1:6

2:24

3:50

2 (1) 10; 4.

(2) 4; 8.

3 1:300

2:200

3:100

4 1:7

2:10

3:20

4:4

5:5

5 1:21

2:16

6 (1) 14; 6.

(2) 29; 12.

7 1:15

2:13

8 36; 12

9 1:15

2:20

3:50

10 1:5

2:5

3:10

11 12; 6; 18

12 1:5

2:7

3:8

4:4

5:3

13 1:10

2:9

Sudoku

1

3	5	2	4	6	1
1	6	4	2	5	3
5	2	6	3	1	4
4	1	3	5	2	6
2	3	1	6	4	5
6	4	5	1	3	2

2

2	4	3	1
3	1	2	4
4	3	1	2
1	2	4	3

3

1	3	4	2
2	4	1	3
4	2	3	1
3	1	2	4

4

2	6	5	1	3	4
4	1	3	6	5	2
1	4	2	3	6	5
3	5	6	4	2	1
5	3	1	2	4	6
6	2	4	5	1	3

5

4	2	3	5	6	1
6	1	5	4	3	2
5	6	2	1	4	3
3	4	1	6	2	5
1	3	6	2	5	4
2	5	4	3	1	6

6

2	4	1	5	3	6
5	3	6	4	1	2
4	6	5	3	2	1
3	1	2	6	5	4
1	5	4	2	6	3
6	2	3	1	4	5

7

5	2	1	6	4	3
3	6	4	2	5	1
4	3	5	1	2	6
2	1	6	5	3	4
1	4	2	3	6	5
6	5	3	4	1	2

8

6	3	4	1	5	2
2	5	1	4	6	3
3	1	2	5	4	6
4	6	5	2	3	1
5	2	3	6	1	4
1	4	6	3	2	5

9

2	5	4	6	3	1
1	3	6	4	2	5
6	1	3	2	5	4
4	2	5	3	1	6
5	4	2	1	6	3
3	6	1	5	4	2

10

1	2	5	6	3	4
3	6	4	5	2	1
2	5	1	3	4	6
6	4	3	1	5	2
4	3	6	2	1	5
5	1	2	4	6	3

11

6	4	1	5	2	3
2	3	5	1	4	6
5	6	4	2	3	1
1	2	3	4	6	5
3	1	2	6	5	4
4	5	6	3	1	2

12

3	6	4	2	5	1
1	2	5	3	6	4
5	3	1	4	2	6
2	4	6	1	3	5
4	5	3	6	1	2
6	1	2	5	4	3

13

1	4	6	3	2	5
2	3	5	1	4	6
3	1	4	5	6	2
6	5	2	4	1	3
4	6	3	2	5	1
5	2	1	6	3	4

14

5	6	4	2	3	1
2	3	1	6	4	5
3	1	2	4	5	6
4	5	6	1	2	3
1	2	3	5	6	4
6	4	5	3	1	2

15

5	1	6	2	3	4
2	4	3	6	1	5
3	2	5	4	6	1
1	6	4	5	2	3
4	3	2	1	5	6
6	5	1	3	4	2

Crazy Math

Think Academy

Think Academy

G3 [C1] MK Level 3-4

1 C 2 A 3 A 4 E 5 D 6 A 7 B 8 C 9 B 10 D 11 D

12 D 13 C 14 C 15 A 16 B 17 B 18 A 19 C 20 B 21 E 22 C

23 D 24 D 25 D 26 C 27 D 28 D 29 D 30 E 31 D 32 E 33 D

34 B 35 B 36 B 37 B 38 E 39 B 40 A 41 B 42 E 43 B 44 D

45 A 46 D 47 D 48 E 49 E 50 C 51 D 52 E 53 E 54 C 55 C

56 B 57 D 58 E 59 B 60 B 61 C 62 A 63 D 64 B

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G3 [C2] Think Cup

1 B 2 B 3 E 4 B 5 D 6 C 7 B 8 D 9 C 10 D 11 D

12 D 13 B 14 D 15 C 16 D 17 D 18 E 19 C 20 C 21 D 22 A

23 B 24 D 25 B 26 D 27 D 28 E 29 E 30 D 31 A 32 B 33 B

34 D 35 D 36 E 37 E 38 A 39 C 40 B 41 D 42 A 43 D 44 C

45 D

Think Academy