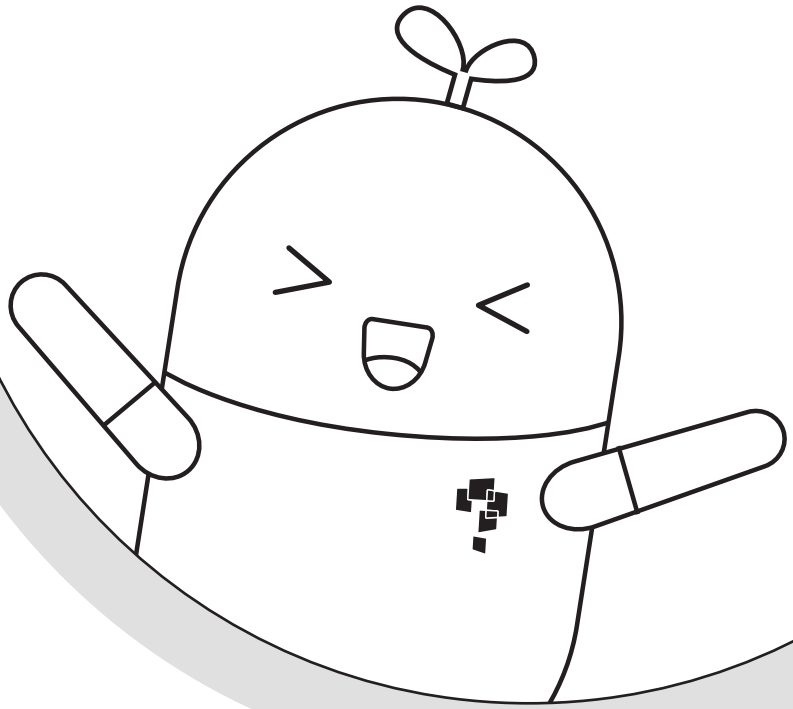
Answers



Think Academy

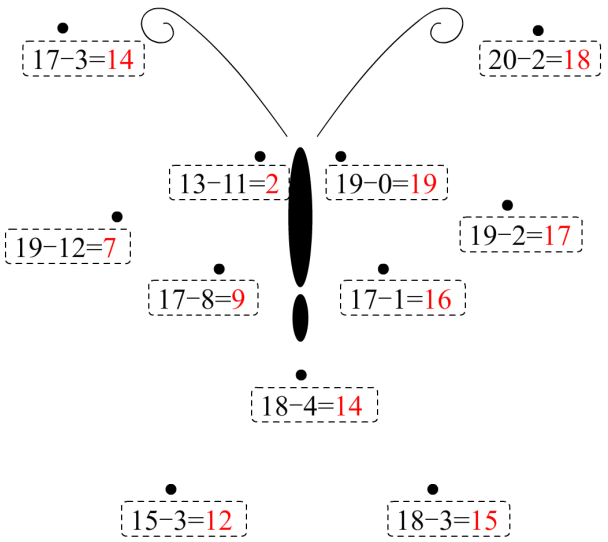
Basic Math

Think Academy

G1 [B1] Numbers and Operations

Addition and Subtraction within 20

1



2

(1) 1:2

2:12

(2) 1:1

2:1

(3) 1:5

2:12

(4) 1:6

2:10

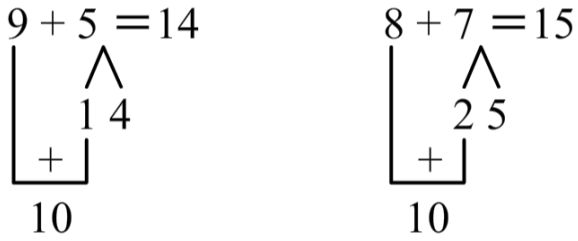
(5) 1:5

2:2

(6) 1:16

2:13

3



4 (1) 1:15

2:13

(2) 1:12

2:11

(3) 1:12

2:16

(4) 1:13

2:15

(5) 1:11

2:12

(6) 1:10

2:14

5 3, 6, 9, 9, 6, 8, 7, 8

6

15	16	19
18	16	11
16	20	13
12	13	13
15	13	18
27	21	22

7 1:7

2:6

3:12

4:8

8 (1) 1:7

2:5

(2) 1:7

2:3

(3) 1:1

2:8

(4) 1:8

2:7

(5) 1:0

2:5

(6) 1:6

2:4

9 (1) 1:10

2:7

(2) 1:6

2:5

(3) 1:1

2:6

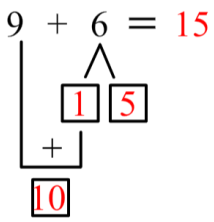
(4) 1:8

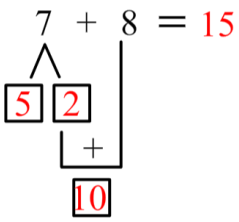
2:7

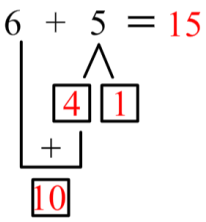
(5) 1:2

2:5

10







11 1:9

2:7

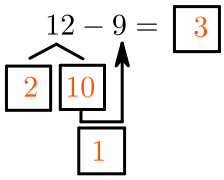
3:11

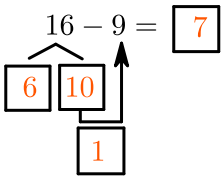
4:9

12 8, 4, 7 .

13 13 ; 15 .

14





15 (1) 1:8

2:16

(2) 1:14

2:5

(3) 1:18

2:18

(4) 1:12

2:12

(5) 1:10

2:15

16 1:3

2:2

3:1

4:4

5:3

6:1

7:2

8:5

9:4

17 (1) 1:12

2:8

(2) 1:5

2:6

18 1:11

2:9

3:8

4:11

19 1:3

2:4

3:5

4:4

5:6

6:5

20 $13-9=4$ $16-7=9$ $12-8=4$

$18-8=10$ $11-8=3$ $17-7=10$

$14-7=7$ $12-7=5$ $15-7=8$

$11-9=2$ $14-8=6$ $16-9=7$

$15-8=7$ $16-8=8$ $19-9=10$

$15-9=6$ $18-9=9$ $16-7=9$

21 1:14

2:7

3:8

4:13

22 (1) 1:9

2:12

(2) 1:17

2:13

(3) 1:16

2:14

(4) 1:18

2:16

(5) 1:17

2:14

23 (1) 1:20

2:15

(2) 1:17

2:17

(3) 1:20

2:18

(4) 1:16

2:9

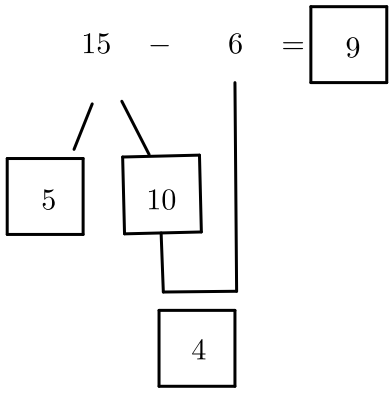
(5) 1:13

2:16

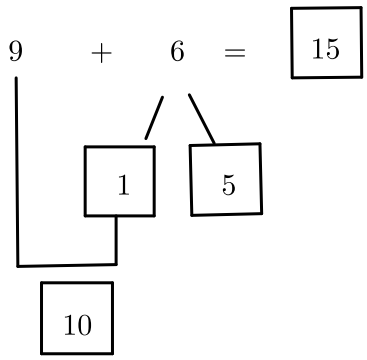
(6) 1:18

2:17

24 (1)



(2)



25 1:8

2:10

3:9

4:13

26 1:9

2:9

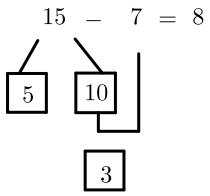
3:8

4:9

5:10

6:10

27



28 (1) 1:12

2:13

(2) 1:13

2:10

(3) 1:11

2:14

(4) 1:8

2:8

(5) 1:11

2:7

(6) 1:5

2:17

29 $10-4=6$

9, 2, 7, 6

5, 1, 8, 3

30 1:7

2:8

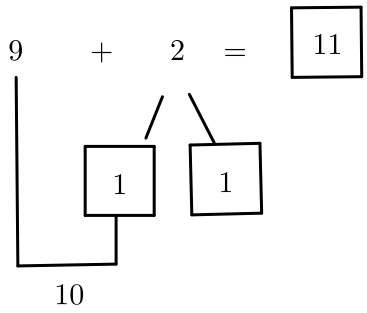
3:6

4:8

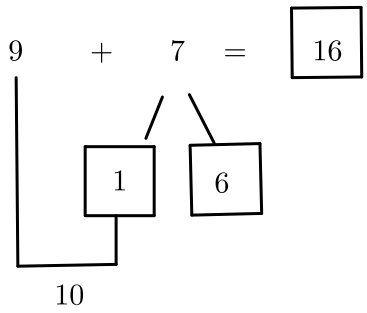
5:9

6:10

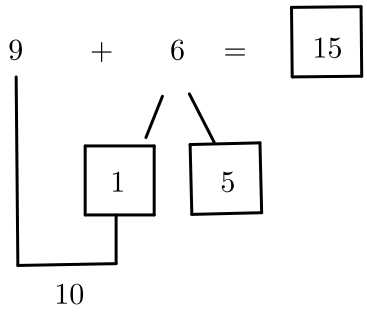
31 (1)



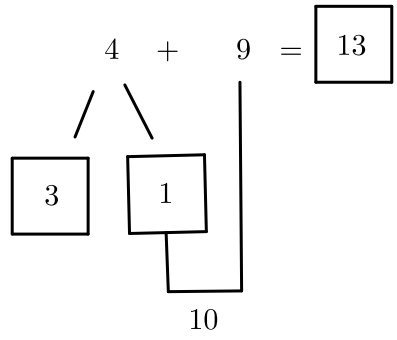
(2)



(3)



(4)



32

$13-9=4$	$16-7=9$	$12-8=4$
$18-8=10$	$11-8=3$	$17-7=10$
$14-7=7$	$12-7=5$	$15-7=8$
$11-9=2$	$14-8=6$	$16-9=7$
$15-8=7$	$16-8=8$	$19-9=10$
$15-9=6$	$18-9=9$	$16-7=9$

33 1:1

2:8

3:6

4:5

5:3

6:2

7:0

8:1

9:5

34 (1) 1:14

2:6

(2) 1:12

2:20

(3) 1:19

2:17

(4) 1:18

2:17

Counting

1 1:4

2:24

2 24

3 1:12

2:12

4 2, 5, 10

5 32

6 (1) 1:7

2:4

(2) 3

7 (1)

	volleyball	soccer	basketball
numbers	9	11	8

(2)

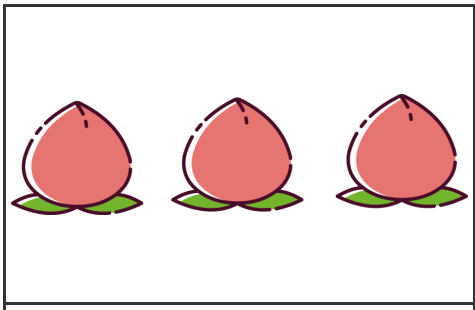
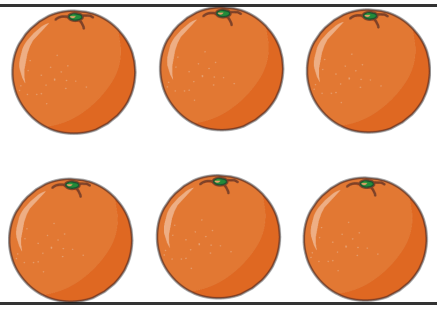
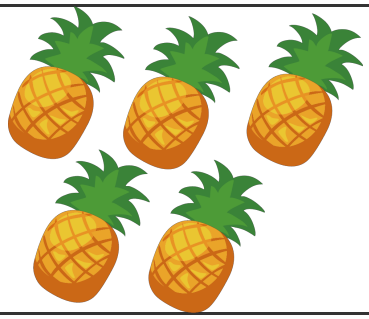
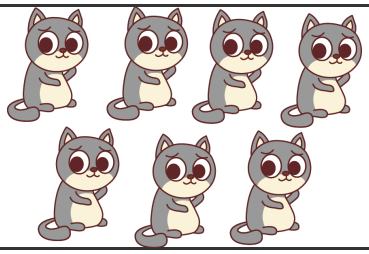
volleyball	soccer	basketball
	√	△

8 12.

9 (1) 8

(2) 8

10

	
3	6
	
5	4
	
9	7

11 2; 4; 3; 6.

12 34

13 1:9

2:7

3:4

14 24

15 2; 5; 8.

16 14

17 (1) 5

(2) 1:second

2:5

3:9

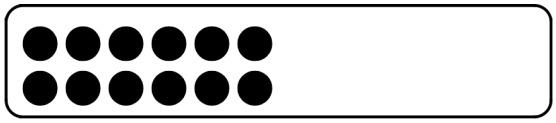
(3) 1:first

2:third

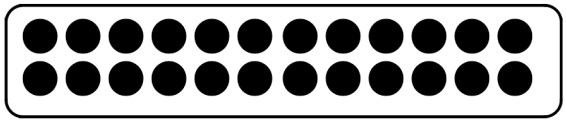
(4) 3

18 41

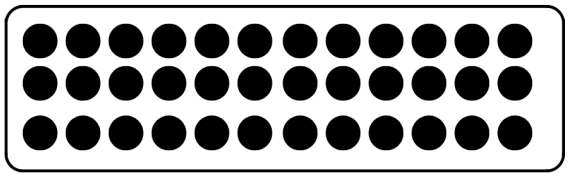
19 12



24



36



20 (1) △△△△△

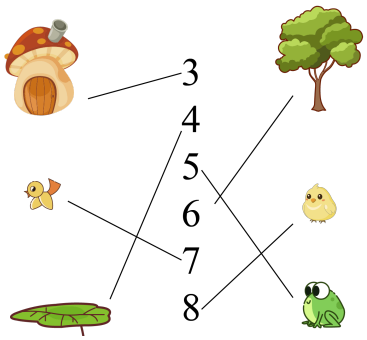
(2) □□□□□

(3) ○○○○○○

(4) ▽▽▽

21 30

22



23 8, 5, 3, 0

24 60

25 4, 5;

5, 4;

20.

26 30

27 1:13

2:17

3:19

28 1:5

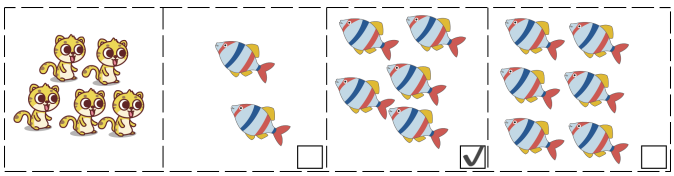
2:8

3:12

29 (1) 9

(2) 12

(3) 10

30 

31 48

32 (1) ○○○○○○○ .

(2) △△△△△△△ .

33 ③ ; ⑧ ; ⑥ .

34 (1) 6

(2) fifth

(3) 1:2

2:4

G1 [B2] Geometry

Counting Plane Shapes

1 C

2 2

3

Shape	Number
Rectangles	4
Triangles	7
Whole Circles	7

4 C 5 C 6 D

7 1:11

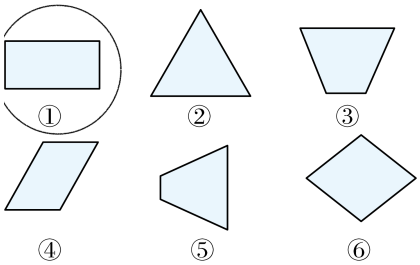
2:7

8 1:9

2:2

3:4

4:5

9 

10 1:7

2:2

3:3

4:3

11 1:5

2:2

3:4

4:4

12 1:4

2:1

13 1:3

2:1

3:2

4:2

14 C

15 1:2

2:1

3:5

4:11

16 1:5

2:1

3:5

4:1

17 1, 4

18 1:6

2:4

19 D 20 D

21 1:2

2:7

22 1:2

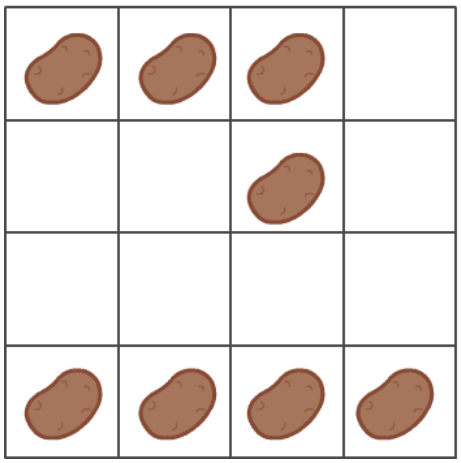
2:4

3:5

4:4

Puzzles

1 (2) (2) (3) (1)



(3)

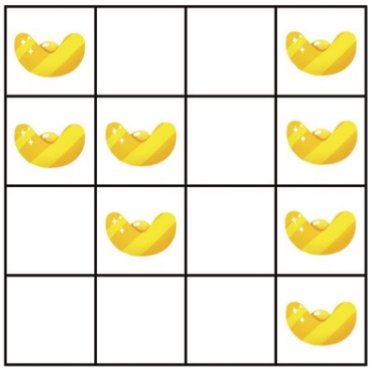
(1)

(0)

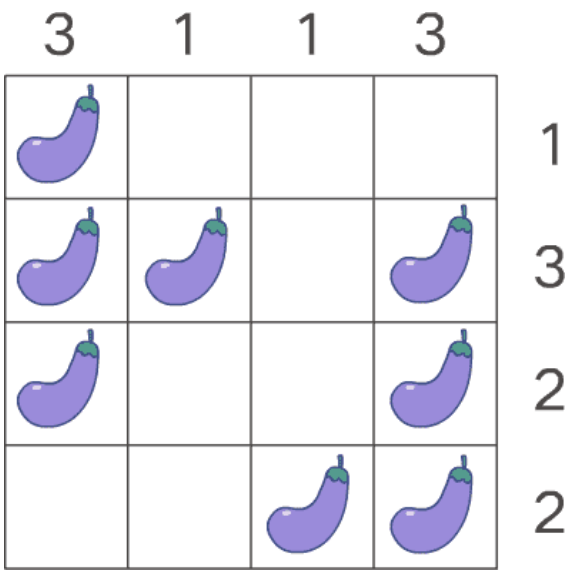
(4)

2

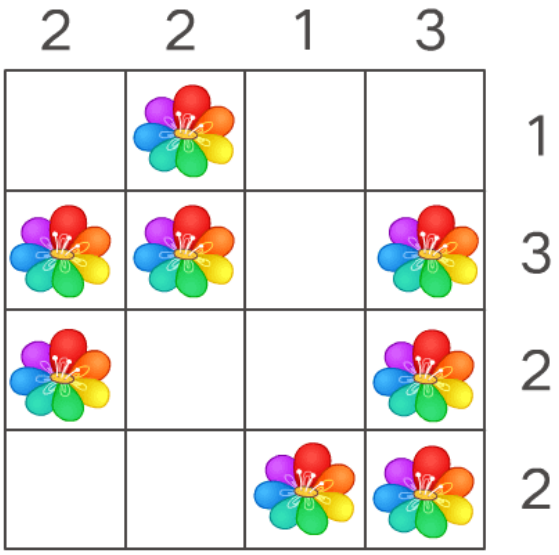
(2) (2) (0) (4)



3

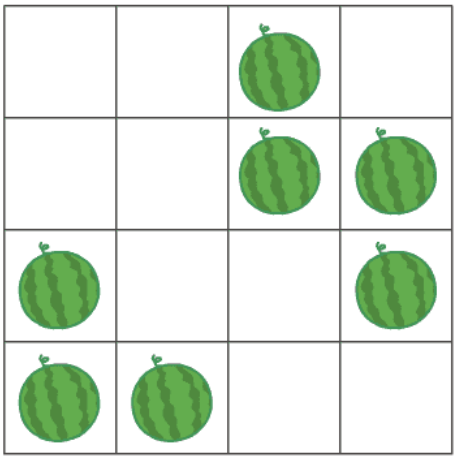


4



5

(2) (1) (2) (2)



(1)

(2)

(2)

(2)

Direction

1 (1) 1:left

2:right

(2) 1:right

2:left

(3) C

2 (1) Ali

(2) David

(3) 3

Alternative:three

3 (1)

(2)

(3) 5

(4)

(5) 3

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

5 (1) 1:fifth

2:first

(2) 1:4

2:2

(3) 2

G1 [B3] Word Problems

Whole and Part

1 $9+8=17$

2 $15-10=5$

3 4

4 9

5 9

6 (1) 55

(2) 41

7 16

8 9

9 10

10 11

11 16

12 12

13 12

14 15

15 15

16 11

17 5

18 9

19 11

More or Less

1 (1) $5+3=8$

(2) $9-3=6$

2 D

3 9

4

B

5 15

6 11

7 $5+4=9,\ 5-3=2$.

8 7

$5+2=7$

9 8

10 13

11 12

12 8

$16-8=8$

13 15

14 10

15 D

16

11

17 10

G1 [B4] Logical Reasoning

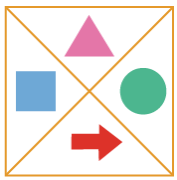
Pattern

1 C 2 A 3 B 4 D 5 C 6 B

7 (1) 1:①
2:③
(2) 1:②
2:④
3:③
(3) 1:②
2:③
3:③
4:③
5:③

8 ●

9 D 10 A 11 A 12 C

13 

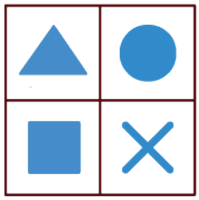
14 D

15 ②

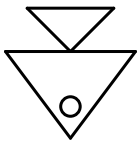
16 C 17 C

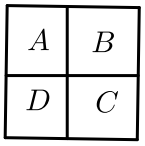
18

19 C

20 

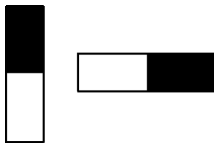
21 D 22 B

23 

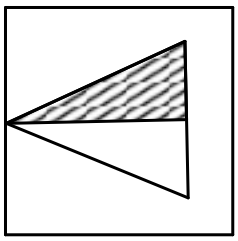
24 

25 D 26 C 27 B

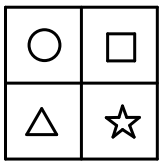
28

(1) 

(2)

29 

30 ▲

31 

32 A 33 B 34 B 35 B 36 A

Advanced Math

Think Academy

G1 [A1] Numbers and Operations

Addition and Subtraction

1 (1) 1:1

2:7

(2) 1:16

2:10

(3) 1:9

2:13

(4) 1:3

2:8

(5) 1:9

2:11

(6) 1:10

2:4

2 1:8

2:4

3:9

4:6

3 (1) 1:16

2:18

(2) 1:17

2:16

(3) 1:12

2:10

(4) 1:14

2:11

4 (1) 1:8

2:8

(2) 1:6

2:18

(3) 1:14

2:12

(4) 1:17

2:8

5 (1) 1:7

2:2

(2) 1:6

2:8

(3) 1:6

2:7

(4) 1:7

2:13

(5) 1:10

2:8

(6) 1:14

2:8

6 (1) 1:6

2:9

(2) 1:3

2:10

(3) 1:4

2:2

(4) 1:11

2:7

7 (1) 1:12

2:12

(2) 1:13

2:16

(3) 1:12

2:15

(4) 1:13

2:9

(5) 1:13

2:9

(6) 1:13

2:15

8 $6 \xrightarrow{+3} \boxed{9} \xrightarrow{-2} \boxed{7} \xrightarrow{+1} \boxed{8} \xrightarrow{-5} \boxed{3} \xrightarrow{+4} \boxed{7} \xrightarrow{-3} \boxed{4} \xrightarrow{+2} \boxed{6}$

$9 \xrightarrow{-3} \boxed{6} \xrightarrow{-5} \boxed{1} \xrightarrow{+8} \boxed{9} \xrightarrow{-0} \boxed{9} \xrightarrow{-7} \boxed{2} \xrightarrow{+6} \boxed{8} \xrightarrow{-4} \boxed{4}$

9 (1) 1:11

2:12

(2) 1:14

2:13

(3) 1:12

2:12

(4) 1:10

2:19

10 (1) 1:2

2:4

(2) 1:9

2:11

(3) 1:13

2:9

(4) 1:9

2:7

(5) 1:5

2:12

(6) 1:4

2:7

11 (1) 6

(2) 17

(3) 32

(4) 40

12 1:9

2:7

3:9

4:7

13 (1) 12

(2) 2

(3) 8

(4) 17

14 1:9

2:6

3:8

4:9

15 (1) 1:13

2:6

(2) 1:11

2:13

(3) 1:12

2:12

(4) 1:15

2:10

(5) 1:20

2:4

16 (1) 1:1

2:3

(2) 1:2

2:6

(3) 1:1

2:8

(4) 1:2

2:5

(5) 1:2

2:2

(6) 1:1

2:9

Calculation with Pictures

1 4, 5

2 $11+5=16$, $5+11=16$,

$16-11=5$, $16-5=11$.

3 $13+6=19$, $6+13=19$,

$19-13=6$, $19-6=13$.

More than one correct answer.

4 (1) 16

(2) 13

(3) 13

(4) 24

5 $6+6=12$

$4+8=12$

$12-4=8$

$8-4=4$

(Any reasonable answer is correct.)

6 0, 0

7 (1) 15

(2) 13

(3) 13

(4) 12

8 1:3

2:7

Odd and Even

1 (1) 80、62、100、10

(2) 25、33、1、45、121、105

2 C

3 Even：28，68，76，112，260；

Odd：15，49，83，105．

4 (1) ○

(2) ○

(3) △

(4) ○

(5) △

(6) ○

(7) △

(8) ○

(9) ○

(10) ○

(11) ○

(12) △

5

Odd Number	Even Number
63; 7; 95; 29	14; 36; 400

6 (1) 1:5

2:Odd

(2) 1:10

2:Even

7 odd: 1、13、27、41、57、61、73、95、11、33、47、15、53、49、51、63、99 .

even: 84 .

8 33，355，123，881，8089，565，677 .

9 (1) 61、27、65、103、99、3569、1

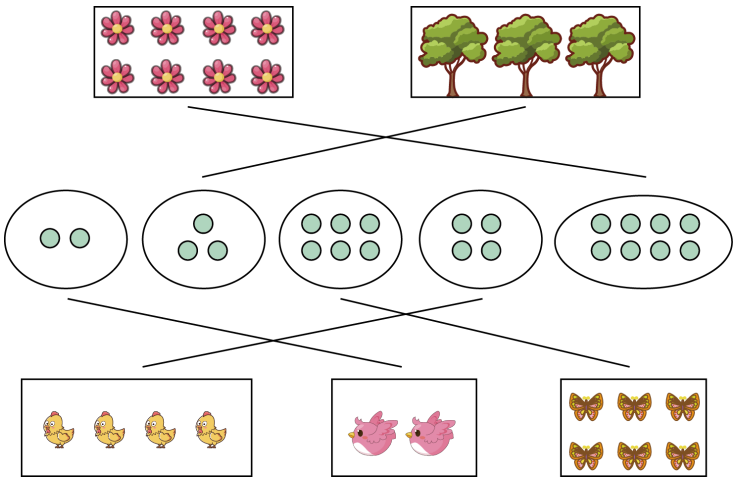
(2) 4、98、50、608、9000、0、770、10

10 1236

11 3

Compare Numbers

1



2 1:<

2:<

3:>

4:<

5:>

6:>

7:<

8:>

9:=

10:<

11:>

12:<

3 1:<

2:>

3:<

4:<

5:>

6:<

7:=

8:<

9:<

4 1:62

2:53

3:51

4:34

5:25

6:7

5 1:>

2:<

3:<

4:=

5:<

6:<

7:>

8:=

9:<

6 (1) 1:5

2:3

3:6

(2) 1:2

2:3

7 1:<

2:<

3:<

8 =

9 1:10

2:7

3:12

4:7

5:10

6:12

10 1:>

2:>

3:<

11 1:<

2:<

3:<

12 C

13 1:9

2:17

14 (1) 1:92

2:10

(2) 1:921

2:102

15 3

16 1:<

2:<

3:>

17 1:20

2:8

18 2

19 1:67

2:9

20 1:<

2:<

3:<

4:>

5:=

6:>

21 (1) 1:0

2:5

(2) 0, 1, 2, 3

(3) 3, 4, 5.

(4) 1:5

2:4

3:3

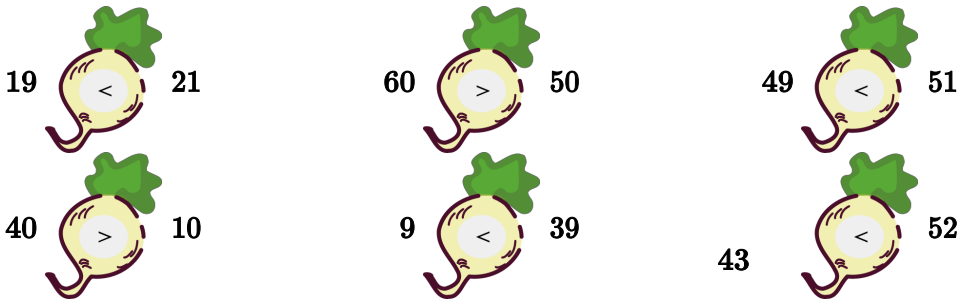
4:2

5:1

6:0

22 B

23



24 (1) 1:9

2:0

(2) 1:3

2:0

(3) 7, 9, 6

25 $24 < 33 < 45 < 59 < 62 < 67$

26 (1) 1:2

2:9

3:4

4:4

(2) 1:monkeys

2:elephants

(3) $9 - 4 = 5$.

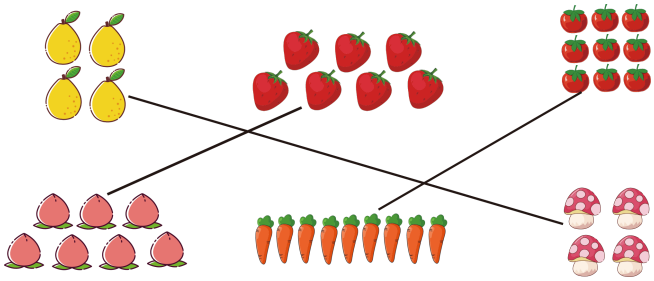
27 1:652

2:125

28 (1) 70, 90, 85, 64

(2) 59, 49, 53, 40, 38

(3) 59, 53, 70, 64

29 

30 **26**

29

31 1:②

2:③

32 1:**20**

2:**7**

33 $12 < 24 < 31 < 68 < 71$

34 $8 > 6$, $16 < 20$.

35 B

36 ⑥ ⑤ ① ④ ③ ②

37 1:**13**

2:22

3:34

4:50

5:51

6:72

38 1:>

2:>

3:>

G1 [A2] Geometry

Counting Solid Shapes

1 19

2 C

3 36

4 (1) 8

(2) 10

(3) 9

5 (1) 5

(2) 8

6 5

7 35

8 9, 10, 9, 12.

9 6 ; 8

10 1:5

2:4

3:7

4:6

11 11 ; 10

12 18

13 All of the solid figures have the same number of .

14 5, 8, 9.

15 4

16 (1)

17 1:13

2:10

3:10

4:8

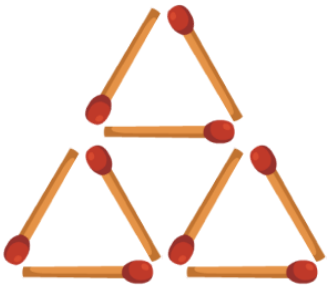
5:10

6:14

Matchsticks

1 9

2 The third one.

3 

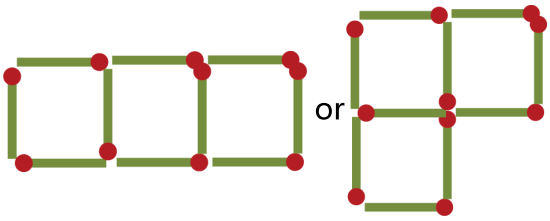
4 1:6

2:11

3:21

5 4

6 2

7 

8 1:7

2:12

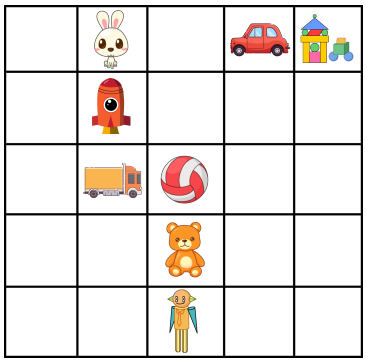
3:17

9 26

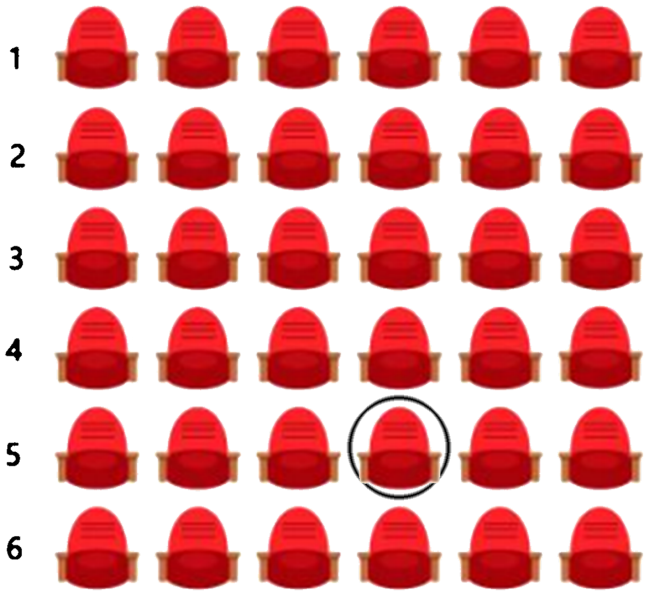
10 7

Direction and Place

1

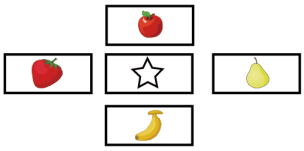


2



3

4



5 *A*

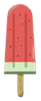
6

7

A2

B3

A4


B5

D2

C4

E1

D5

8 A

Symmetry

1 D 2 A 3 CADB 4 C 5 B 6 C 7 C 8 C 9 C

G1 [A3] Word Problems

2-step Word Problems

1 9

2 2

3 26

4 9

5 Tina bought 30 more notebooks than Sherry.

6 $3+4+6=13$

More than one answer.

7 110

8 B

9 5

10 11

11 $4+5+2=11$

More than one answer.

12 15

13 11

14 48

15 5; 5

16 15

17 More than one answer.

$13-2-3=8$

18 $5+4-5=4$

19 27

20 18

21 20

$12-4=8$

$12+8=20$

22 10

23 5

24 30

25 38

26 5

Lining Up

1 24

2 C 3 B

4 10

5 B 6 B

7 12

8 D 9 D 10 B

11 21

12 10

13 24

14 A

15 12

16 15

17 D 18 C 19 C 20 D

21 13

Matching in Order

1 6 ways:

LNC

LCN

NLC

NCL

CLN

CNL

2 A

3 6 ways:

AEB

ABE

EAB

EBA

BEA

BAE

4 D

5 6 ways:

MFS

MSF

FMS

FSM

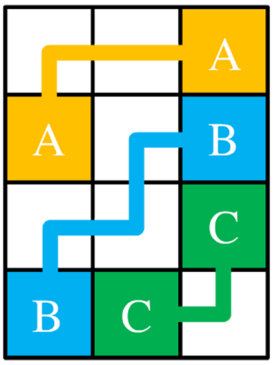
SMF

SFM

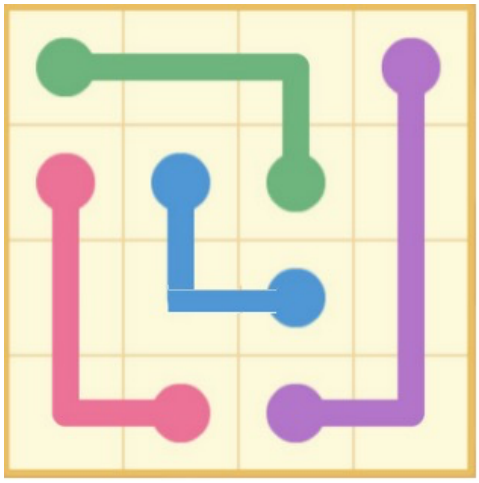
G1 [A4] Logical Reasoning

Color Crush

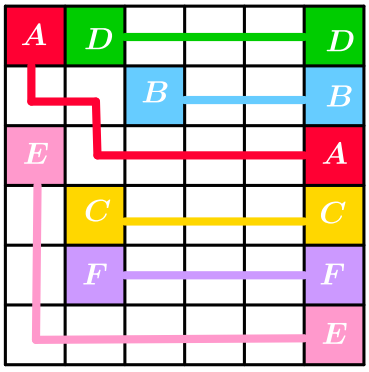
1



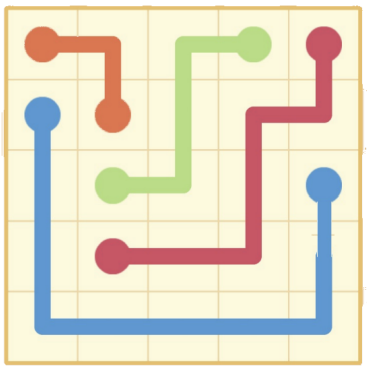
2



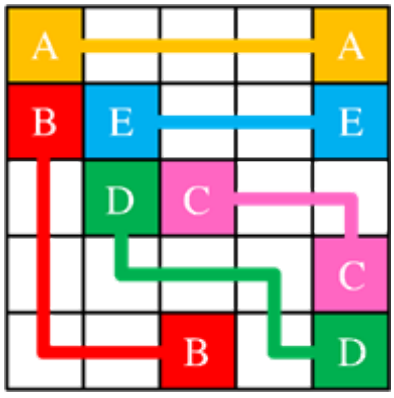
3



4



5



Sudoku

1 D 2 C 3 D

4 1:pear

2:apple

3:strawberry

4:peach

5 C

Balance

1

8

2 1

3 6

4 12

5 2

6 6

7 C

8 3

9 4

10 6

11 6

12 6

13 6

14 9

15 6

16 C

17 6

18 9

19 6

20 4

21 8

22 4

23 4

24 3

25 3

26 3

27 6

28 3

29 6

Pattern

1 C

2 (1) 23, 27, 31

(2) 9, 6, 3

3 B

4

5 D 6 C 7 C 8 E

9 25, 32, 39, 53;

32, 14, 8, 2.

10 B

Matchsticks

1 15

2 C 3 C

4 (1) 5

(2) 0 or 9

5 13

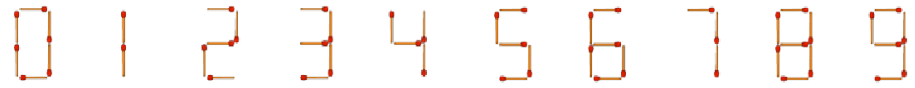
6 1:7

2:9

7 93

8 91

9 97

10 

(6) (2) (5) (5) (4) (5) (6) (3) (7) (6)

11 1:95

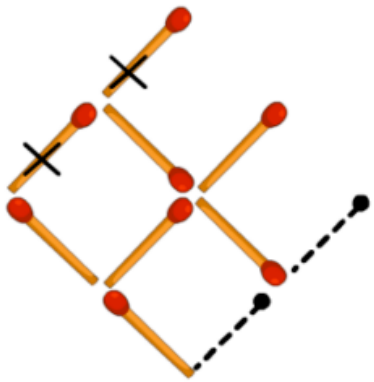
2:20

12 C

13 6

14 B

15 16

16 

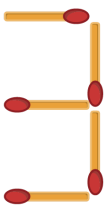
17 10

18 99

19 99

20 1:77

2:14

21 

22

1:8

2:8

3:8

23 79

24 9

25 8 needs 7 matchsticks

1 needs 2 matchsticks

26 1:91

2:10

Crazy Math

Think Academy

Think Academy

G1 [C1] MK Level 1-2

1	B	2	B	3	D	4	E	5	C	6	C	7	C	8	A	9	B	10	E	11	D		
12	B	13	D	14	D	15	E	16	E	17	A	18	A	19	A	20	B	21	D	22	C		
23	C	24	B	25	C	26	C	27	D	28	D	29	C	30	A	31	C	32	C	33	D		
34	C	35	D	36	A	37	D	38	B	39	C	40	E	41	B	42	D	43	D	44	A		
45	C	46	B	47	A	48	C	49	B	50	D	51	D	52	B	53	D	54	D	55	D		
56	C	57	B	58	B	59	C	60	C	61	C	62	B	63	A	64	C						

Think Academy

G1 [C2] Think Cup

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

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

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

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

45 D

Think Academy