

Solutions

How to read the solutions

The solutions are ordered by book page; each exercise appears under its title from the book. Answers follow the reading order in the book: row by row, left to right; multiple values are separated by |. For picture exercises, a small sketch shows the finished solution.

Page 8 • Numbers up to 5

Write the numbers 0 to 5

0 | 1 | 2 | 3 | 4 | 5

Page 9 • Numbers up to 5

Count and color the dots up to 3

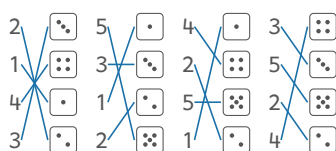
2 | 1 | 3

3 | 2 | 2

1 | 2 | 1

3 | 2 | 1

Which die fits?



Add with pictures and numbers

4 | 4

3 | 3

2 | 2

3 | 3

Read the dice and add

3 | 5 | 2 | 2 | 3

1 | 4 | 3 | 4 | 4

4 | 2 | 5 | 5 | 5

2 | 1 | 4 | 4 | 3

Page 10 • Numbers up to 5

Number line: write the numbers

1, 2, 4

2, 4

2, 3

0, 1, 3

1, 3, 4

1, 3

Break the numbers apart!

3 | 1 | 1 | 1 | 2

2 | 2 | 1 | 3 | 1

Add with breakfast

3 | 3

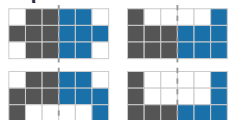
5 | 5

4 | 4

4 | 5

Page 11 • Numbers up to 5

Complete the mirror images



Count and color!

2 | 4 | 1

5 | 3 | 2

4 | 1 | 5

3 | 2 | 4

Now add with numbers only

5 | 4 | 5 | 4

5 | 5 | 5 | 4

4 | 3 | 3 | 5

2 | 4 | 4 | 3

Page 12 • Numbers up to 5

Add up the cards

2 | 5 | 2 | 4

3 | 5 | 4 | 3

4 | 3 | 5 | 4

4 | 2 | 3 | 5

Work out the petals following the arrows

4, 3, 2, 1, 0

1, 2, 3, 4, 5

3, 2, 1, 0

Number line: fill in the numbers

0, 2, 3 | 3, 4, 5

2, 3, 5 | 1, 2, 3

2, 3, 4 | 0, 1, 3

2, 3, 4 | 1, 3, 4

1, 2 | 2, 4, 5

1, 2, 4 | 0, 1, 2

Page 13 • Numbers up to 5

Complete each floor to make the roof number

3, 2, 1 | 1, 2, 3 | 2, 3, 1 | 1, 3, 2 | 2, 1, 3 | 3, 1, 2

Plus - work it out!

2 | 4 | 5 | 4

5 | 3 | 3 | 5

5 | 4 | 3 | 4

4 | 5 | 2 | 3

Find the neighbor numbers

0, 2 | 1, 3 | 2, 4

3, 5 | 2 | 4

3 | 1 | 2

4 | 1 | 3

Page 14 • Numbers up to 5

Find the two matching cards

1+2 | 1+1

1+3 | 2+2

2+3 | 1+4

1+3 | 2+1

Add up three groups

5 | 5

3 | 4

4 | 4

5 | 5

Solutions

Page 14 · continued

How does the pattern continue?



Find the missing numbers in the squares

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

Page 15 · Numbers up to 5

Two dice - plus

3 | 2 | 4
4 | 5 | 5
4 | 3 | 5
2 | 5 | 3

Complete the number houses

3, 2, 1 | 1, 3, 2 | 2, 3, 1 | 2, 1, 3 | 3, 1, 2 | 1, 2, 3

Count the towers and add them up

2+1=3 | 2+2=4 | 1+1=2
3+2=5 | 1+2=3 | 2+3=5
1+3=4 | 3+1=4 | 1+4=5

Page 16 · Numbers up to 5

How often does each fruit appear?

4 | 5 | 2 | 3

How many apples does each animal have?

3 | 5
2 | 4
3 | 1
4 | 2

Minus - first pictures, then numbers

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

Page 17 · Numbers up to 5

Minus - work it out!

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

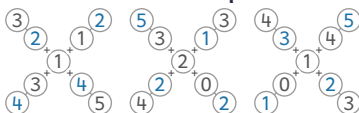
Two cards, one difference

4-1 | 4-2
5-3 | 5-1
5-4 | 5-2
3-1 | 3-2

Keep breaking apart

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

Add outward from the spider



Page 18 · Numbers up to 5

Work out the caterpillars step by step

5, 4 | 2, 3, 5
3, 4 | 2, 4, 1
5, 3 | 1, 5, 1

Two bricks make the brick above

3 | 4 | 5 | 2
4 | 5 | 4 | 3
5 | 5 | 2 | 2
1 | 2 | 4 | 1

Plus and minus: what is missing?

2 | 2 | 3 | 4
3 | 4 | 2 | 3
2 | 2 | 1 | 4
3 | 5 | 1 | 5

Page 19 · Numbers up to 5

Continue the shape patterns



The roof shows the rule

3, 5, 2 | 3, 1, 2 | 5, 3, 4 | 2, 4, 1 | 5, 3, 4

How many are on the line?

5 | 3
3 | 4
4 | 2
2 | 1

How much does this cost altogether?

\$3 | \$5
\$2 | \$4

Page 20 · Numbers up to 5

Find the right path!

1+1+1=3 | 2+1+1=4
1+2+2=5 | 1+1+2=4
2+2+1=5 | 1+2+2=5

Plus and minus mixed

3 | 2 | 4
4 | 1 | 2
3 | 4 | 4
2 | 3 | 5

Find the secret card

2 | 4 | 1
3 | 1 | 3
3 | 2 | 2
1 | 4 | 5

Page 21 · Numbers up to 5

Compare the numbers

< | < | > | > | =
> | < | > | = | <
= | > | = | < | >
> | = | < | > | <

Solutions

Page 21 · continued

Order from smallest to largest

$$1 < 2 < 3 < 4$$

$$2 < 3 < 4 < 5$$

$$1 < 2 < 4 < 5$$

$$1 < 3 < 4 < 5$$

Page 23 · Numbers up to 5

Boss level: numbers up to 5

$$\text{Leaf} - \text{Spider} = 3$$

Page 26 · Numbers up to 10

Write the numbers 6 to 10

$$6 \mid 7 \mid 8 \mid 9 \mid 10$$

Page 27 · Numbers up to 10

Work out the petals

$$1, 2, 3, 4, 5, 6, 7, 8, 9$$

$$8, 7, 6, 5, 4, 3, 2, 1, 0$$

$$2, 3, 4, 5, 6, 7, 8, 9$$

Counting up and down

$$10 \mid 8$$

$$7 \mid 4$$

$$10 \mid 9$$

$$5 \mid 1$$

Fill in the number line to 10

$$5, 8 \mid 7, 8$$

$$8, 9 \mid 5, 7$$

$$7, 9 \mid 7, 10$$

$$7, 9 \mid 6, 7$$

$$6, 8 \mid 6, 9$$

$$6, 8 \mid 8, 10$$

Page 28 · Numbers up to 10

Count and color the dots

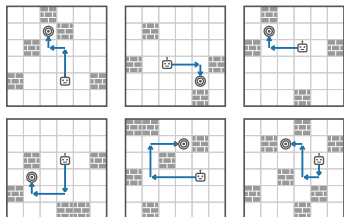
$$3 \mid 7$$

$$5 \mid 1$$

$$9 \mid 6$$

$$8 \mid 10$$

Push the robot $\uparrow \downarrow \leftarrow \rightarrow$ to the next block



Continue the number patterns

$$5, 10$$

$$2, 4, 6$$

$$10, 8, 6$$

$$7, 7, 3$$

Page 29 · Numbers up to 10

Find the neighbors!

$$2, 4 \mid 6, 8 \mid 4, 6$$

$$8, 10 \mid 1, 3 \mid 5, 7$$

$$3, 5 \mid 7, 9 \mid 0, 2$$

$$5 \mid 7 \mid 2$$

Make 9 or 10

$$8 \mid 6 \mid 1$$

$$3 \mid 9 \mid 4$$

$$6 \mid 1 \mid 2$$

$$5 \mid 4 \mid 7$$

Now the flower in steps of two

$$8, 6, 4, 2$$

$$2, 4, 6, 8, 10$$

$$3, 5, 7, 9$$

Page 30 · Numbers up to 10

Which numbers are missing in the pattern?

$$5, 8$$

$$8, 6$$

$$3, 6$$

$$7, 4$$

Count in jumps

$$7 \mid 4 \mid 2$$

$$5 \mid 7 \mid 3$$

$$4 \mid 8 \mid 10$$

$$4 \mid 3 \mid 2$$

Count the dark dots - or color them in!

$$4 \mid 7$$

$$2 \mid 6$$

$$8 \mid 3$$

$$9 \mid 10$$

The number tree grows

$$4, 2, 1 \mid 3, 2, 2$$

Page 31 · Numbers up to 10

Complete the number houses

$$3, 1, 4, 2 \mid 2, 4, 1, 3 \mid 1, 2, 5, 3 \mid 1, 5, 4, 2 \mid 4, 2, 1, 3$$

Steps of two in the flower

$$5, 7, 9$$

$$7, 5, 3, 1$$

$$6, 8, 10$$

Work out the caterpillars

$$8, 5 \mid 6, 9, 10$$

$$8, 6 \mid 5, 10, 4$$

$$5, 7 \mid 7, 10, 6$$

What goes first?

$$9 \mid 5 \mid 6$$

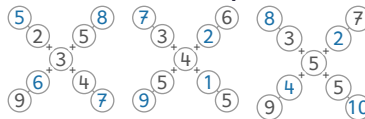
$$4 \mid 8 \mid 3$$

$$6 \mid 1 \mid 7$$

$$2 \mid 3 \mid 7$$

Page 32 · Numbers up to 10

Add outward from the spider



Another number tree

$$2, 3, 1 \mid 4, 1, 1$$

From plus to minus

$$3, 4 \mid 2, 6 \mid 5, 2$$

$$1, 9 \mid 4, 3 \mid 4, 6$$

$$4, 5 \mid 3, 6 \mid 2, 8$$

Solutions

Page 33 • Numbers up to 10

Three numbers - plus!

6 | 8 | 7
9 | 7 | 10
5 | 9 | 8
10 | 6 | 5

Measure the pencils

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

A: 5 A: 4
B: 2 B: 5
C: 3 C: 2
D: 4 D: 3

Did Euli make a mistake?

7 | 8
5 | 5
8 | 10
5 | 7

Page 34 • Numbers up to 10

Connect with the correct swap partner

2+3=3+2 | 2+6=6+2
1+4=4+1 | 1+8=8+1
3+7=7+3 | 3+4=4+3
4+5=5+4 | 4+6=6+4

Simple subtraction problems

7 | 5 | 4
7 | 1 | 3
4 | 1 | 5
2 | 8 | 3

Tricky number patterns

4, 8 | 6, 2
5, 7 | 9, 3
4, 7 | 9, 7
1, 2 | 9, 7

Page 35 • Numbers up to 10

Keep counting in jumps

9 | 8
10 | 2
1 | 9
0 | 1

Build up the wall!

9, 4, 5 | 8, 3, 5 | 8, 5, 3
7, 3, 4 | 6, 3, 3 | 10, 3, 7
10, 4, 6 | 6, 4, 2 | 9, 6, 3

Final sprint: number tree

4, 1, 2 | 5, 4, 3

Page 36 • Numbers up to 10

Minus - work it out!

6 | 6 | 8
2 | 7 | 5
4 | 3 | 2
7 | 3 | 6

Find the right path!

3+2+2=7 | 2+5+1=8
2+4+3=9 | 6+2+2=10
3+4+1=8 | 3+4+3=10

Work out the petals

4, 6, 8, 10
8, 6, 4, 2, 0
4, 7, 10

Page 37 • Numbers up to 10

Even or odd

4: even | 5: odd
6: even | 10: even
9: odd | 8: even
7: odd | 3: odd

The children's favorite weather

5 | 3 | 8 | 6

Add up the cards

3 | 5 | 4 | 7
6 | 7 | 6 | 9
8 | 9 | 8 | 6
10 | 10 | 5 | 10

Page 38 • Numbers up to 10

O'clock and half-past times up to 5

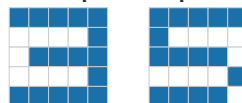
3 | 1 | 2 | 3
4 | 5 | 2 | 3
1 | 2 | 1 | 4

Complete the number houses

3, 4, 1, 2 | 1, 2, 3, 4 | 1, 5, 3, 4 | 2, 1, 4, 3 | 6, 2, 5, 1

Page 39 • Numbers up to 10

Fill the squares to paint a number



Work out the dragons

2+2=4, 1+2=3, 4+3=7, 7+1=8, 8+1=9
2+2=4, 1+1=2, 4+2=6, 6+1=7, 7+3=10
1+1=2, 1+1=2, 2+2=4, 4+1=5, 5+2=7
1+1=2, 2+1=3, 2+3=5, 5+1=6, 6+2=8

Page 40 • Numbers up to 10

Keep going with the walls!

8, 4, 4 | 10, 5, 5 | 7, 4, 3
9, 5, 4 | 8, 3, 5 | 7, 3, 4
9, 6, 3 | 6, 3, 3 | 10, 4, 6

Plus and minus with towers

6+3=9 | 8-2=6 | 5+3=8
8-4=4 | 2+6=8 | 7-5=2
5-1=4 | 6-3=3 | 7-4=3

Solutions

Page 48 · continued

Connect with the correct swap partner

$$5+2=2+5 \mid 3+5=5+3$$

$$4+6=6+4 \mid 1+9=9+1$$

$$1+8=8+1 \mid 2+4=4+2$$

$$2+7=7+2 \mid 3+6=6+3$$

Page 49 · Numbers up to 10

Find the matching dominoes

$$1+5, 2+4, 3+3, 4+2, 0+6$$

Find the secret card

$$7 \mid 8 \mid 1$$

$$2 \mid 3 \mid 5$$

$$4 \mid 5 \mid 2$$

$$6 \mid 4 \mid 6$$

Complete the number line

$$6, 7, 8 \mid 7, 8, 9$$

$$7, 9, 10 \mid 7, 8, 9$$

$$5, 6, 7 \mid 4, 5, 7$$

$$6, 8, 9 \mid 8, 9, 10$$

$$7, 8, 10 \mid 6, 7, 9$$

$$5, 6, 7 \mid 5, 7, 8$$

Page 50 · Numbers up to 10

Work out the caterpillars

$$7, 3 \mid 5, 8, 2$$

$$9, 6 \mid 10, 6, 9$$

$$10, 4 \mid 2, 6, 10$$

Compare the numbers

$$< \mid = \mid < \mid < \mid >$$

$$= \mid > \mid > \mid > \mid =$$

$$> \mid < \mid < \mid = \mid <$$

$$< \mid = \mid = \mid < \mid >$$

Did Euli make a mistake?

$$7 \mid 8$$

$$4 \mid 4$$

$$8 \mid 9$$

$$5 \mid 4$$

Find all the ingredients

$$7, 5, 9, 5, 6 \rightarrow \text{yes}$$

$$5, 7, 4, 9, 7 \rightarrow \text{no}$$

$$7, 6, 9, 5, 6 \rightarrow \text{yes}$$

Page 51 · Numbers up to 10

From minus to plus

$$9, 9 \mid 8, 8 \mid 7, 7$$

$$10, 10 \mid 6, 6 \mid 8, 8$$

$$9, 9 \mid 10, 10 \mid 7, 7$$

Halve the number!

$$3 \mid 4 \mid 2 \mid 5$$

$$1 \mid 2 \mid 5 \mid 4$$

$$5 \mid 3 \mid 4 \mid 1$$

$$2 \mid 5 \mid 1 \mid 3$$

Page 52 · Numbers up to 10

Did Euli make a mistake?

$$7 \mid 8$$

$$4 \mid 5$$

$$8 \mid 9$$

$$6 \mid 1$$

Add each pair of numbers to get the one above

$$10, 6, 4 \mid 9, 5, 4 \mid 8, 3, 5$$

How much does this cost altogether?

$$\$3 \mid \$4$$

$$\$2 \mid \$5$$

Another plus table

$$5, 6, 7 \quad 5, 6, 7 \quad 3, 5, 7$$

$$6, 7, 8 \quad 6, 7, 8 \quad 4, 6, 8$$

$$7, 8, 9 \quad 7, 8, 9 \quad 5, 7, 9$$

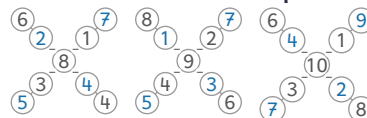
$$8, 9, 10 \quad 8, 9, 10 \quad 6, 8, 10$$

Page 53 · Numbers up to 10

Share fairly

$$3 \mid 5 \mid 2 \mid 1 \mid 4 \mid 2 \mid 5$$

Subtract outward from the spider



On the clothesline

$$10$$

$$9$$

$$6$$

$$8$$

Page 54 · Numbers up to 10

Find the right path!

$$1+5+4=10 \mid 0+2+6=8$$

$$1+4+1=6 \mid 5+3+1=9$$

$$3+1+2=6 \mid 1+3+6=10$$

The path is longer now



Page 55 · Numbers up to 10

Complete the domino

$$4 \mid 4 \mid 5 \mid 4$$

$$3 \mid 6 \mid 3 \mid 5$$

O'clock and half-past times up to 10

$$3 \mid 7 \mid 5 \mid 2$$

$$9 \mid 6 \mid 1 \mid 9$$

$$4 \mid 8 \mid 10 \mid 5$$

First plus, then minus

$$1 \mid 8 \mid 2$$

$$4 \mid 9 \mid 4$$

$$3 \mid 7 \mid 5$$

$$7 \mid 2 \mid 6$$

Solutions

Page 56 · Numbers up to 10

How many balls does each child have?

4 | 6

5 | 2

3 | 1

7 | 8

Pick the right cards

5+3 | 3+5

4+6 | 3+2

4+2 | 7+2

3+6 | 7+3

Compare the problems

5 = 5 | 7 < 8 | 8 = 8

4 > 3 | 6 = 6 | 7 > 6

10 = 10 | 5 > 4 | 9 > 8

5 < 6 | 7 = 7 | 7 < 8

Add the two dominoes

2+4=6 | 3+5=8 | 4+3=7

5+4=9 | 4+6=10 | 6+3=9

Page 57 · Numbers up to 10

Number tree: fill in the empty side

5, 2, 1 | 3, 3, 1

Escape the dungeon!

7, 8, 9, 7 | 5, 9, 8, 6

6, 10, 9, 7 | 5, 10, 9, 8

Another golem pyramid

10, 5, 5 | 9, 6, 3 | 8, 2, 6

Page 58 · Numbers up to 10

What comes next?

7 | 10

10 | 6

3 | 6

1 | 2

Number wall: find the missing bricks

2, 4, 1 | 6, 2, 5 | 6, 4, 3

4, 3, 2 | 5, 5, 4 | 5, 4, 2

7, 3, 2 | 4, 4, 3 | 2, 5, 4

Find the difference

3-1 | 8-3

7-3 | 5-2

4-2 | 9-2

7-2 | 9-1

Page 59 · Numbers up to 10

Can you fold the cube? Count the 6 faces!

Yes | No | Yes | No

Yes | No | Yes | No

Plus and minus with three dice

2 | 7 | 10

6 | 5 | 1

4 | 9 | 3

3 | 4 | 8

Find the secret card

4 | 3 | 5

3 | 6 | 3

8 | 1 | 2

2 | 6 | 1

Page 60 · Numbers up to 10

Three dice mixed

1 | 3 | 9

4 | 2 | 8

9 | 5 | 7

5 | 10 | 6

Subtract the cards

1 | 5 | 2 | 2

5 | 3 | 5 | 3

3 | 9 | 1 | 4

4 | 4 | 6 | 7

Find the right path!

4+3+2=9 | 3+2+1=6

1+3+3=7 | 3+4+3=10

1+4+3=8 | 2+3+4=9

Page 61 · Numbers up to 10

How much does this cost altogether?

\$4 | \$7 | \$5

\$8 | \$6 | \$3

Tricky number lines!

1, 2, 4, 5

2, 3, 5, 6

5, 6, 7, 9

5, 7, 8, 9

2, 3, 4, 5

3, 4, 6, 7

Simple squares

6 3	2 6	6 2	5 4	1 6
4 2	5 4	3 6	3 4	3 3
1 6	4 3	2 4	6 2	5 4
7 2	5 3	6 3	4 5	2 5

Page 62 · Numbers up to 10

Compare the numbers

< | < | > | < | <

= | = | < | < | >

< | = | < | > | >

> | > | > | < | >

One is missing - which one?

4 | 3 | 8

7 | 2 | 9

1 | 5 | 9

5 | 3 | 8

Work it out and fill in

3 | 3 | 5

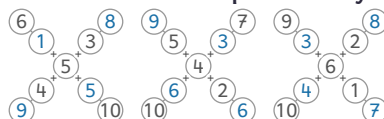
8 | 6 | 4

3 | 9 | 9

6 | 3 | 7

Page 63 · Numbers up to 10

Add outward from the spider - tricky!



Solutions

Page 63 • continued

Double the number!

2 | 6 | 8 | 4
8 | 10 | 2 | 6
4 | 8 | 6 | 10
10 | 2 | 4 | 8

Halve the number!

5 | 4 | 2 | 3
3 | 5 | 4 | 1
4 | 1 | 3 | 2
2 | 3 | 1 | 5

Page 64 • Numbers up to 10

How many times does the number fit?

3
2
2
4

Plus and minus up to 10

4 | 3 | 8
9 | 7 | 2
6 | 8 | 5
4 | 5 | 1

Plus and minus mixed

4 | 6 | 5
4 | 3 | 4
7 | 8 | 5
3 | 4 | 9

Puzzle: Each side equals the target

5, 4, 3 | 5, 3, 1 | 4, 2, 0 | 2, 1, 0

Page 65 • Numbers up to 10

Number patterns

2, 6
10, 6, 2
1, 7
9, 7, 5, 3, 1

How much does this cost altogether?

\$7 | \$10
\$9 | \$8

Puzzle: Connect the numbers



Page 66 • Numbers up to 10

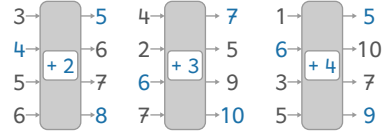
How many are in the containers altogether?

7 | 10
9 | 6
9 | 8

Solve the squares

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

The number machine

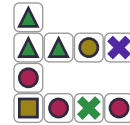


Page 67 • Numbers up to 10

How many times does the number fit?

2
5
3
4

Shape patterns



Puzzle: Every potion is brewed twice

4, 2, 6, 8 | 10, 4, 2, 8
6, 2, 10, 4 | 8, 2, 6, 10
2, 8, 4, 6 | 2, 8, 10, 6

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Tricky squares

2 5	3 5	2 6	4 2	3 4
4 5	4 5	5 3	1 5	2 5
6 2	3 5	1 3	4 3	1 2
3 4	2 4	2 7	2 5	6 4

Puzzle: How heavy is the empty box?

7 | 6
8 | 5

Puzzle: The magic wand code

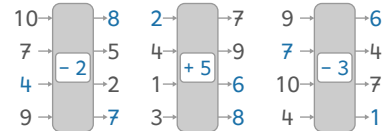
8 | 8 | 5
6 | 3 | 9
8 | 1 | 2

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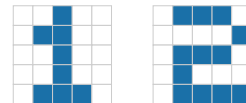
Puzzle: Crack the secret code

7 | 6 | 10 | 8

The number machine

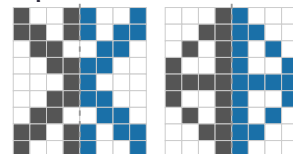


Number magic



Page 70 • Numbers up to 10

Complete the harder mirror image



Solutions

Page 70 • continued

Find the way!

9, 10, 7, 6, 0, 3, 5, 2, 7, 8 | 5, 8, 7, 2, 6, 0, 1, 3, 8, 4, 9

Page 71 • Numbers up to 10

Even more tricky squares

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

Dragon math

$3+1=4$, $2+1=3$, $4+3=7$, $7+1=8$, $8-2=6$
 $2+0=2$, $3+1=4$, $2+4=6$, $6+1=7$, $7-3=4$
 $1+2=3$, $1+3=4$, $3+4=7$, $7+2=9$, $9-4=5$
 $3+2=5$, $3+1=4$, $5+4=9$, $9+1=10$, $10-7=3$

Two dice - which sum?

5	6	10	7
8	10	7	9
9	4	9	5
7	3	5	

Page 73 • Numbers up to 10

Boss level: numbers up to 10

6 | 10
 9 | 7 ← magic 7!
 10

Page 76 • Numbers up to 20

Write the numbers 11 to 20

11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

Page 77 • Numbers up to 20

Fill in the number line to 20

10, 11, 12, 13, 15, 17, 19
 3, 4, 5, 6, 7, 9, 11, 13
 6, 7, 9, 11, 12, 14
 8, 9, 10, 12, 14, 15, 16
 3, 4, 6, 7, 9, 11
 9, 11, 13, 14, 16, 17

Twenty frame: count and color the dots

12 | 13
 15 | 16
 18 | 11

Favorite animals at the zoo

12 | 7 | 15 | 9 | > | > | < | <

Page 78 • Numbers up to 20

Order the numbers to 20

$1 < 5 < 9 < 12 < 14 < 18$
 $2 < 3 < 10 < 11 < 16 < 17$
 $2 < 4 < 8 < 15 < 16 < 19$
 $2 < 10 < 11 < 13 < 15 < 17$

Compare the numbers

$< | > | > | >$
 $= | > | < | <$
 $> | < | > | =$
 $< | > | < | <$

Find the neighbors!

10, 12 | 15, 17 | 12, 14
 17, 19 | 14, 16 | 11, 13
 16, 18 | 13, 15 | 18, 20
 11 | 15 | 18

Page 79 • Numbers up to 20

Twenty frame: keep practicing

19 | 11
 16 | 8
 13 | 17

Big dragons

$3+4=7$, $2+3=5$, $7+5=12$, $12+2=14$, $14+5=19$
 $5+3=8$, $4+2=6$, $8+6=14$, $14+1=15$, $15-3=12$
 $4+2=6$, $5+3=8$, $6+8=14$, $14+3=17$, $17-3=14$
 $4+3=7$, $2+3=5$, $7+5=12$, $12+1=13$, $13+4=17$

Color even and odd numbers

even: 2, 8, 4, 20, 14, 6 | odd: 5, 9, 15, 3, 1, 11

Page 80 • Numbers up to 20

Puzzle: The secret message

I
 ENJOY
 MATH

Continue the number patterns

18, 20
 4, 2
 17, 19
 3, 1

Order from largest to smallest

$20 > 16 > 15 > 12 > 11 > 8$
 $19 > 18 > 16 > 14 > 13 > 11$
 $19 > 17 > 15 > 13 > 10 > 2$
 $20 > 17 > 14 > 12 > 9 > 5$

Page 81 • Numbers up to 20

Twenty frame: crossing ten

$8+2+3=13$
 $6+4+1=11$
 $9+1+6=16$
 $6+4+4=14$
 $8+2+5=15$
 $9+1+8=18$

Page 82 • Numbers up to 20

Crossing ten with a bridge - addition

$8+2+3=13$ | $9+1+2=12$
 $7+3+1=11$ | $9+1+6=16$
 $8+2+4=14$ | $7+3+2=12$
 $9+1+4=14$ | $8+2+5=15$

Friends of ten help!

$9+1+1=11$ | $9+1+3=13$
 $8+2+7=17$ | $9+1+8=18$
 $8+2+4=14$ | $7+3+6=16$
 $9+1+5=15$ | $5+5+2=12$

Ten and a little more

1 | 2 | 3 | 4 | 5
 6 | 7 | 8 | 9 | 10

Solutions

Page 83 · Numbers up to 20

Even or odd

12: even | 13: odd

14: even | 15: odd

19: odd | 18: even

16: even | 17: odd

O'clock times

3 | 7 | 12 | 5

9 | 1 | 2 | 8

11 | 4 | 6 | 10

Page 84 · Numbers up to 20

Add in the golem pyramid

14, 8, 6 | 18, 10, 8 | 17, 8, 9

Crossing ten - addition

$8+2+3=13$ | $8+2+5=15$

$5+5+4=14$ | $6+4+2=12$

$8+2+4=14$ | $9+1+2=12$

$4+6+1=11$ | $9+1+6=16$

How much is that altogether?

15 | 20

10 | 17

11 | 12

19 | 13

Flat shape or solid?

Flat shape: Circle, Triangle, Square, Rectangle

Solid: Cube, Cylinder, Sphere, Box

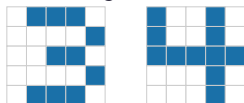
Page 85 · Numbers up to 20

Domino sums

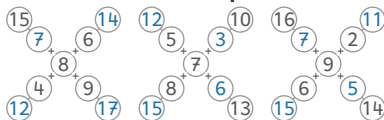
$7+8=15$ | $7+9=16$ | $10+3=13$

$10+5=15$ | $12+7=19$ | $11+6=17$

Number magic



Add outward from the spider



Page 86 · Numbers up to 20

Work out the caterpillars

12, 9 | 18, 13, 19

9, 16 | 12, 8, 16

6, 12 | 15, 10, 19

Crossing ten with a bridge - subtraction

$13-3-2=8$ | $16-6-1=9$

$11-1-6=4$ | $15-5-3=7$

$12-2-7=3$ | $14-4-4=6$

$11-1-8=2$ | $12-2-5=5$

Crossing ten - subtraction

$15-5-2=8$ | $13-3-4=6$

$16-6-3=7$ | $15-5-1=9$

$13-3-5=5$ | $14-4-3=7$

$14-4-2=8$ | $13-3-6=4$

Page 87 · Numbers up to 20

Halve the number!

4 | 8 | 1 | 3

9 | 6 | 7 | 10

8 | 10 | 4 | 7

1 | 5 | 9 | 2

Build up the wall!

17 | 13 | 15

16, 7, 9 | 18, 10, 8 | 13, 6, 7

20, 9, 11, 4, 5, 6 | 17, 10, 7, 7, 3, 4 | 18, 8, 10, 3, 5, 5

Page 88 · Numbers up to 20

How many times does the number fit?

4

5

3

3

Work out the caterpillars

11, 17 | 8, 17, 20

17, 13 | 15, 8, 16

5, 10 | 9, 18, 20

Work out the petals

2, 4, 6, 8, 10, 12, 14, 16, 18, 20

18, 16, 14, 12, 10, 8, 6, 4, 2, 0

4, 8, 12, 16, 20

Connect with the correct swap partner

$4+7=7+4$ | $3+8=8+3$

$5+8=8+5$ | $5+9=9+5$

$6+9=9+6$ | $6+8=8+6$

$7+9=9+7$ | $4+9=9+4$

Page 89 · Numbers up to 20

Double the number!

14 | 4 | 18

8 | 20 | 6

16 | 2 | 10

12 | 16 | 8

Harder - find the missing numbers!

4 | 6 | 5

5, 6, 1 | 7, 5, 3 | 6, 8, 4

9, 8, 4, 5, 3, 1 | 8, 7, 5, 3, 4, 2 | 9, 10, 4, 5, 5, 1

Minus and plus with 5 or 6

1, 13 | 9, 19 | 1, 11

7, 17 | 10, 16 | 6, 12

6, 11 | 7, 19 | 15, 20

2, 12 | 4, 9 | 3, 8

Page 90 · Numbers up to 20

Bigger inverse problems

12, 5 | 11, 8 | 14, 3

10, 4 | 13, 2 | 10, 8

12, 7 | 11, 5 | 15, 3

Connect with the correct swap partner

$9+8=8+9$ | $8+7=7+8$

$7+9=9+7$ | $10+8=8+10$

$10+9=9+10$ | $12+7=7+12$

$11+9=9+11$ | $11+8=8+11$

Solutions

Page 90 · continued

How many times does the number fit?

4
4
3
5

Page 91 · Numbers up to 20

Who am I?

8 | 5 | 14 | 16

Connect each number to the right word

four = 4 | eight = 8
nine = 9 | two = 2
one = 1 | twelve = 12
six = 6 | five = 5
eleven = 11 | ten = 10
three = 3 | seven = 7

Page 92 · Numbers up to 20

Compare the problems

13 = 13 | 14 < 15 | 14 < 15
12 > 11 | 10 < 11 | 18 = 18
17 > 16 | 18 > 17 | 12 < 13
10 = 10 | 17 = 17 | 19 > 17

Find the right path!

6+2+4=12 | 4+5+1=10
9+0+1=10 | 2+5+4=11

Which shape is this?

Circle | Square
Triangle | Rectangle

Page 93 · Numbers up to 20

Find all the ingredients

14, 11, 18, 16, 20 → yes
8, 16, 12, 17, 8 → no
15, 8, 17, 14, 20 → yes

Escape the great dungeon!

16, 15, 12, 8, 7, 5, 1, 7, 9, 8 | 19, 17, 14, 10, 15, 17, 12, 13, 11, 14

Continue the pattern

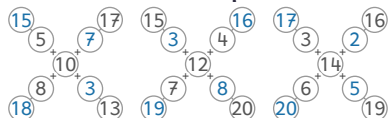
16, 18, 20
17, 20
16, 19
6, 4, 2

Page 94 · Numbers up to 20

Arrow arithmetic

+5, -14, +4, +5
+5, +3, +2
10, -10, -2, +6
+5, +8, 15, 10
7, -8, +2, 12
9, -9, +1, +4, 10

Add outward from the spider - mental math!



Steps in the flower

3, 6, 9, 12, 15, 18
14, 11, 8, 5, 2
16, 12, 8, 4, 0

Page 95 · Numbers up to 20

Minus and plus with 6 or 7

1, 15 | 13, 19 | 1, 13
6, 12 | 4, 18 | 7, 14
5, 17 | 5, 12 | 8, 20
2, 14 | 4, 16 | 3, 9

Who am I?

7 | 18 | 15 | 12

Plus and minus with four dice

6 | 12
13 | 17
10 | 8
9 | 5

Page 96 · Numbers up to 20

Every row, column and diagonal adds up to 15

2, 8, 1 | 8, 7, 9 | 6, 7, 4

Find the inverse

16, 16 | 18, 18 | 20, 20
15, 15 | 19, 19 | 13, 13
17, 17 | 14, 14 | 20, 20

Tricky patterns

5, 7
10, 13
15, 16
14, 18

Page 97 · Numbers up to 20

Connect the tricky number words

thirteen = 13 | sixteen = 16
seventeen = 17 | twelve = 12
eleven = 11 | nineteen = 19
twenty = 20 | fourteen = 14
fifteen = 15 | ten = 10
nine = 9 | eighteen = 18

On the clothesline

11
12
10
9

Addition: what is missing?

9 | 7 | 1
5 | 11 | 6
12 | 4 | 10
2 | 8 | 3

Page 98 · Numbers up to 20

Find all the ingredients

7, 15, 9, 13, 20 → yes
15, 11, 17, 14, 5 → no
7, 12, 9, 18, 20 → yes

Solutions

Page 104 • continued

More squares

5 8	6 8	4 9	8 6	6 9
7 8	8 9	6 7	5 6	5 7
9 5	7 6	5 8	9 8	8 9
3 8	8 4	9 6	7 5	4 7

Page 105 • Numbers up to 20

Did Euli make a mistake?

13 | 8
8 | 16
11 | 9
7 | 13

Puzzle: Connect all 20 numbers



Calculating with the calendar

8 | 6 | 9 | 12

Page 106 • Numbers up to 20

Find the days in the calendar

left: 10, 17, 6 | right: 12, 18, 7

The other way around - what goes first?

13 | 9 | 15
18 | 14 | 10
11 | 19 | 17
16 | 8 | 12

Can you fold the cube? Count the 6 faces!

Yes | Yes | No | Yes
No | No | Yes | No

Page 107 • Numbers up to 20

Puzzle bonus: double or triple!

4 | 18 | 6
14 | 20 | 16
3 | 12 | 6
15 | 9 | 18

Minus and plus with 5 to 9

2, 20 | 5, 10 | 9, 14
6, 12 | 2, 16 | 8, 13
9, 18 | 1, 19 | 2, 12
2, 8 | 2, 18 | 5, 17

Calculating with the calendar

13 | 7 | 9 | 12

How much does this cost altogether?

\$9 | \$11
\$10 | \$12

Page 108 • Numbers up to 20

Add up the dominoes

11+7=18 | 10+7=17 | 8+9=17
7+6=13 | 8+9=17 | 10+9=19

What does Euli pay when shopping?

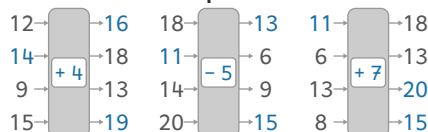
\$2 and 12¢
\$3 and 11¢
\$4 and 13¢
\$5 and 18¢

Find the days in the calendar

left: 11, 17, 8 | right: 9, 17, 4

Page 109 • Numbers up to 20

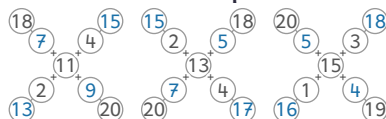
The number machine past ten



Half-past times

3 | 5 | 8 | 1
10 | 6 | 12 | 2
7 | 4 | 9 | 11

Add outward from the spider - across ten



Page 110 • Numbers up to 20

How many are in the containers altogether?

17 | 18
20 | 16

Did Euli make a mistake?

14 | 15
9 | 8
16 | 15
7 | 8

Practice minus

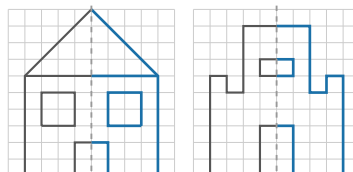
12 | 11 | 4
7 | 5 | 4
12 | 8 | 9
6 | 6 | 5

Page 111 • Numbers up to 20

Measure the pencils

A: 14 A: 13
B: 9 B: 18
C: 17 C: 10
D: 6 D: 15
A: 15 A: 16
B: 11 B: 8
C: 19 C: 12
D: 8 D: 14

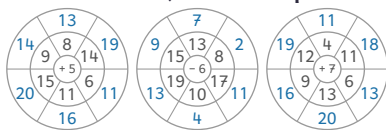
Draw the other half



Solutions

Page 112 · Numbers up to 20

Watch the middle, sometimes plus and sometimes minus



Plus and minus mixed

$$17 \mid 19 \mid 13$$

$$14 \mid 12 \mid 7$$

$$16 \mid 18 \mid 18$$

$$4 \mid 6 \mid 3$$

Add three containers together

$$20 \mid 19$$

$$18 \mid 17$$

Page 113 · Numbers up to 20

Numerion goes shopping

\$16 and 11¢

\$14 and 14¢

\$13 and 15¢

\$15 and 10¢

How do you pay?

$$\$1 + \$1 + \$1 + 1¢ + 1¢ + 1¢$$

$$\$1 + \$1 + \$1 + \$1$$

$$\$1 + 10¢ + 10¢$$

$$10¢ + 5¢ + 1¢ + 1¢ + 1¢$$

$$\$1 + \$1 + 10¢ + 5¢$$

\$5

$$\$1 + \$1 + \$1 + 10¢$$

Page 114 · Numbers up to 20

How much change?

$$\$16 \mid \$14$$

$$\$12 \mid \$18$$

Connect with the correct swap partner

$$3+8=8+3 \mid 5+6=6+5$$

$$4+7=7+4 \mid 2+9=9+2$$

$$6+7=7+6 \mid 5+8=8+5$$

$$4+9=9+4 \mid 7+8=8+7$$

Puzzle: A double portion for the witch

$$8, 14, 6, 12 \mid 12, 20, 8, 16$$

$$10, 16, 12, 6 \mid 14, 10, 18, 8$$

$$18, 8, 14, 10 \mid 20, 18, 12, 8$$

Page 115 · Numbers up to 20

At the toy store

$$\$13 \mid \$8 \mid 20 \mid \$4 \mid 17$$

Work out the chain!

$$9 \mid 18$$

$$16 \mid 5$$

$$12 \mid 17$$

$$10 \mid 13$$

The secret card with minus

$$4 \mid 9 \mid 7 \mid 11$$

$$6 \mid 7 \mid 6 \mid 2$$

$$8 \mid 5 \mid 10 \mid 14$$

$$12 \mid 13 \mid 3 \mid 5$$

Page 116 · Numbers up to 20

Share fairly

$$6 \mid 4 \mid 10 \mid 7 \mid 5 \mid 9 \mid 8$$

How do you pay for it?

$$\$1 + \$1 + \$1$$

$$\$5 + \$1$$

$$\$1 + 5¢$$

$$\$5 + \$1 + \$1$$

$$\$1 + \$1 + 10¢ + 10¢$$

$$\$1 + \$1 + \$1 + \$1 + 10¢$$

$$\$5 + \$1 + 10¢ + 5¢$$

Page 117 · Numbers up to 20

Puzzle: Crack the code step by step

$$7 \mid 9 \mid 4 \mid 6$$

$$11$$

$$13 \mid 15$$

$$13 \mid 3$$

Crossing ten: what is missing?

$$5 \mid 7 \mid 8$$

$$8 \mid 9 \mid 8$$

$$6 \mid 8 \mid 5$$

$$13 \mid 15 \mid 7$$

Counting money

$$\$6 \text{ and } 10¢ \mid \$12 \text{ and } 10¢ \mid \$13 \text{ and } 5¢$$

$$\$5 \text{ and } 5¢ \mid \$7 \text{ and } 5¢ \mid \$11 \text{ and } 5¢$$

$$\$10 \text{ and } 10¢ \mid \$15 \text{ and } 5¢ \mid \$17 \text{ and } 10¢$$

$$\$5 \text{ and } 10¢ \mid \$7 \text{ and } 15¢ \mid \$16 \text{ and } 10¢$$

Page 118 · Numbers up to 20

At the swimming pool

$$17 \mid 7 \mid 16 \mid 7 \mid 14$$

Puzzle: What does the "?" cost?

$$\$5 \mid \$4 \mid \$3$$

Who worked out the chain correctly?

$$\text{Euli } (12-5+3+6-4=12)$$

$$\text{Numerion } (8+7-5+4-6=8)$$

$$\text{Euli } (15-3-4+8-2=14)$$

Page 119 · Numbers up to 20

O'clock and half-past times

$$4 \mid 7 \mid 12 \mid 2$$

$$9 \mid 10 \mid 1 \mid 6$$

$$3 \mid 8 \mid 5 \mid 11$$

Euli and Numerion go shopping

$$\$11 \text{ and } 16¢$$

$$\$16 \text{ and } 15¢$$

$$\$12 \text{ and } 20¢$$

$$\$10 \text{ and } 14¢$$

Page 120 · Numbers up to 20

Count the bills and coins

$$\$5 \text{ and } 20¢ \mid \$10 \text{ and } 3¢ \mid \$15 \text{ and } 2¢$$

$$\$7 \text{ and } 2¢ \mid \$11 \text{ and } 20¢ \mid \$17 \text{ and } 1¢$$

$$\$6 \text{ and } 12¢ \mid \$12 \text{ and } 1¢ \mid \$20 \text{ and } 2¢$$

$$\$7 \text{ and } 11¢ \mid \$13 \text{ and } 10¢ \mid \$20 \text{ and } 20¢$$

Problems to think about

$$13 \mid 15 \mid 7 \mid 8 \mid 13$$

Solutions

Page 121 · Numbers up to 20

Puzzle: What does the "?" cost?

\$6 | \$7 | \$3

Puzzle: What day is it?

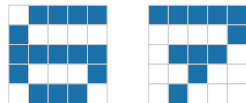
Friday

Sunday

Monday

Tuesday

Number magic



Page 122 · Numbers up to 20

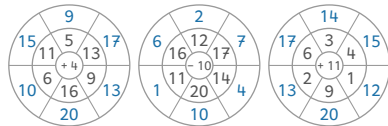
Mixed clock times

1 | 6 | 9 | 4

8 | 11 | 2 | 5

10 | 3 | 7 | 12

Keep turning the wheel, plus and minus



Fill in the rule houses

13, 18, 15 | 12, 15, 17 | 14, 19, 12 | 14, 18, 17 | 15, 20, 18

Page 123 · Numbers up to 20

At the supermarket

10 → 1

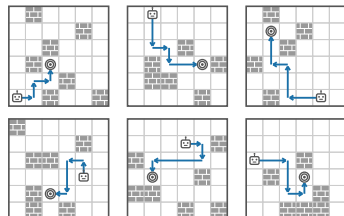
4 → 6

6 → 6

10 → 15

9 → 4

4 moves ↑↓↔ to the block



Page 125 · Numbers up to 20

Boss level: numbers up to 20

17