Mystery pictures sampler

10 puzzles · Ages 4 to adult · answer keys at the back

Ten colour-by-sums mystery pictures, two at every level, from adding to 7 up to two-step sums with brackets. Print in colour for the key, or just use the colour names.

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Name _____ Date _____

Mystery picture: adding to 7 no. 1

Work out each square, find the answer in the colour key, and colour the square. A picture will appear!

white
2

red
6

pink
3

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

Name _____ Date _____

Mystery picture: adding to 7 no. 3

Work out each square, find the answer in the colour key, and colour the square. A picture will appear!

light blue
3

blue
7

orange
5

yellow
4

black
1

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

Name _____ Date _____

Mystery picture: adding and subtracting to 10 no. 4

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

white
10

pink
6

orange
9

green
1

black
8

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

Name _____ Date _____

Mystery picture: adding and subtracting to 10 no. 21

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

light blue
2

orange
10

yellow
0

black
7

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

Name _____ Date _____

Mystery picture: adding and subtracting to 20 no. 22

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

- **light blue** 2, 11
- **navy** 7, 15
- **red** 6, 12
- **orange** 0, 20
- **yellow** 16, 17
- **grey** 8, 9

20-5	10+5	19-4	6+9	15-0	1+5	19-12	15-0	0+7	13+2	1+14
4+3	0+16	1+6	4+3	19-13	6+0	18-12	19-12	9-2	7+8	6+1
6+9	2+5	19-4	5+1	6+0	12-0	4+8	11-5	7+0	20-13	20-5
5+2	17-10	2+13	2+6	1+7	2+7	20-12	0+9	11-4	6+1	7+8
16-1	0+7	6+9	9+0	1+1	2+0	11-9	11-3	3+12	2+13	4+12
13+2	19-12	8+7	8+0	8-6	1+1	20-9	1+7	16-9	15-8	8+7
17-2	20-13	14-7	5+3	5+4	6+2	7+1	12-3	10+5	16-1	9+6
4+11	0+15	7+0	2+7	8+1	11-3	15-7	14-5	19-12	15-8	8-1
15+0	9+6	0+12	6+3	19-11	16-7	13-4	5+3	18-12	17-2	2+5
11-4	14-2	9+3	3+6	13-5	9+0	18-9	1+8	5+1	16-4	2+5
12-5	14-2	17-5	12-4	15-6	11-2	3+6	6+2	17-11	0+6	11+4
1+6	5+1	19-4	18-9	8+1	0+8	8+0	5+3	17-10	14-2	18-3
12-5	0+7	3+4	10+5	20+0	12+5	8-8	13-6	20-13	9-2	19-4
9-2	16-1	7+8	3+12	0+0	13+4	0+0	10+5	7+0	6+1	3+12
8+7	10-3	7+0	9+6	15-8	0+0	13-6	0+15	1+14	18-3	15-0
6+1	8+8	20-13	17-2	8+7	19-4	6+9	1+6	1+6	9+7	17-2

Name _____ Date _____

Mystery picture: adding and subtracting to 20 no. 1

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

white
16, 18

orange
4, 7

dark green
8, 10

black
3, 14

0+18	12+6	9+9	20-2	5+13	12+4	1+7	6+12	20-2	12+4	20-2	11+5	16+2
5+11	20-4	18-2	19-3	19-3	8+2	17-9	20-2	8+8	19-1	4+14	20-4	18-2
1+17	17-1	1+6	6+1	14-10	1+3	15-7	6-2	6+1	2+5	1+3	20-4	17-1
2+14	8-1	20-13	13-9	4+0	2+2	13-6	19-12	4+3	9-5	12-5	5+2	18-2
8-1	4+0	1+3	2+5	8-5	2+2	5-1	2+2	7+7	16-12	2+2	1+6	14-10
18-11	11-7	7+0	5+9	6+8	3+0	3+1	18-15	4-1	9-6	15-11	5-1	11-7
16-12	8-4	11-7	18-11	8-4	5+2	4+3	4+0	17-10	9-2	3+1	5+2	16-9
20-13	6+1	1+2	2+1	17-3	13+1	2+1	13+1	17-3	2+12	14-11	5+2	11-7
2+2	13-6	18-11	13-9	20-17	1+2	13-10	14-0	11-8	7-3	3+4	2+2	17-13
11+7	10-3	3+4	2+5	11-4	0+7	7-3	0+4	11-4	20-16	9-2	1+3	3+15
8+8	2+14	0+7	13-9	7+0	9-2	14-7	8-4	2+2	14-7	3+4	14+2	17-1

Name _____ Date _____

Mystery picture: times tables no. 3

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

light blue
18, 49

blue
21, 64

red
10, 27

yellow
8, 15

black
5, 24

grey
42, 48

6×3	7×7	7×7	9×2	6×3	6×3	9×2	7×7	3×6	7×7	7×7	7×7	7×7	6×3	9×2	2×9
9×2	3×6	6×3	9×2	9×2	3×9	5×2	60÷6	3×9	9×3	9×3	2×9	7×7	7×7	3×6	2×9
7×7	7×7	7×7	9×2	9×3	8×8	3×7	5×2	3×7	8×8	8×8	20÷2	3×6	9×2	2×9	7×7
7×7	7×7	9×2	5×2	8×8	3×7	7×3	90÷9	8×8	8×8	3×7	3×7	2×5	3×6	3×6	2×9
6×3	3×9	3×9	2×5	30÷3	2×5	60÷6	9×3	9×3	9×3	80÷8	9×3	3×9	70÷7	50÷5	7×7
5×3	5×2	5×2	3×9	9×3	90÷9	2×5	80÷8	50÷5	5×2	2×5	9×3	3×9	40÷4	5×2	9×3
3×9	3×9	3×9	20÷2	9×3	2×5	2×5	80÷8	3×9	70÷7	3×9	5×2	80÷8	2×5	3×9	3×9
7×7	2×5	9×3	6×4	5×1	5×1	30÷3	2×5	3×9	2×5	9×3	6×4	5×1	1×5	5×2	6×3
9×2	7×7	7×7	1×5	5×1	8×3	2×9	2×9	7×7	7×7	7×7	25÷5	3×8	8×3	7×7	9×2
6×8	8×6	7×6	7×6	8×6	8×6	7×6	6×7	8×6	8×6	8×6	8×6	7×6	8×6	6×7	6×8

Name _____ Date _____

Mystery picture: times tables no. 24

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

- **white** — 5, 56
- **light blue** — 6, 42
- **orange** — 2, 10
- **yellow** — 12, 63
- **brown** — 8, 54
- **black** — 3, 27

2×3	4×2	4×2	3×2	6×7	7×6	6×7	7×6	6×7	9×6	6×9	7×6
48÷8	2×4	6×9	6×9	4×2	56÷7	6×9	6×9	9×6	6×9	64÷8	24÷4
48÷6	2×4	7×9	6×2	6×2	72÷9	6×9	4×3	3×4	9×7	9×6	9×6
9×6	4×3	1×3	9×3	9×7	6×9	9×6	7×9	27÷9	1×3	3×4	6×9
6×9	6×9	4×3	2×6	7×9	6×9	2×4	6×2	3×4	7×9	40÷5	4×2
9×6	2×4	4×2	2×4	9×6	2×1	18÷9	9×6	9×6	2×4	9×6	2×4
4×2	6×9	9×6	8×7	8×7	80÷8	5×2	10÷2	15÷3	2×4	64÷8	48÷6
24÷3	4×2	8×7	5×1	8×7	8×7	8×7	20÷4	5×1	7×8	9×6	2×4
9×6	6×9	5×1	72÷9	1×5	48÷6	4×2	7×8	56÷7	1×5	32÷4	32÷4
64÷8	9×6	7×8	5×1	7×8	8×7	7×8	5×1	8×7	10÷2	4×2	56÷7
3×2	9×6	40÷5	1×5	5×1	35÷7	1×5	7×8	15÷3	16÷2	32÷4	6×7
7×6	3×2	56÷7	4×2	72÷9	4×2	48÷6	6×9	9×6	2×4	7×6	7×6
6×9	24÷3	4×2	5×2	9×6	56÷7	9×6	4×2	2×5	56÷7	6×9	72÷9

Name _____ Date _____

Mystery picture: mixed operations no. 2

Solve the sum in each square, find the answer in the colour key, and colour the square to match. Do multiplication and division before adding and subtracting, and brackets first. A picture will appear!

light blue
21, 25, 38

green
7, 9, 14

dark green
22, 27, 31

brown
1, 18, 40

black
2, 30, 37

6×6-11	5×9-7	6×2+13	4×3+13	27-1-1	8×3+14	72÷8+12	7×7-11	37-3-13	4×9-11	11-1-1	(2+5)×2	2×2+10	18÷2	7×6-28	2×8+5
4×8+6	8×5-2	6×9-29	40-13-6	4×4+22	6×5+8	2×9+7	54-12-4	6×4+14	31-10-7	29-5-15	(7+8)×2	8÷2+3	5×2+4	5×5-11	24÷3+6
41-1-2	35-13-1	7×3+17	38-3-14	9×7-25	40-16-3	5×2+15	6×4+14	3×6+20	6×4-10	42÷6+7	39-13-17	18÷6+4	(1+6)×2	39-21-4	28÷4+7
26-3-2	36-2-9	7×6-4	6×6-15	3×2+32	57-6-13	33-3-5	42-8-13	2×6-3	8×4-18	3×4+2	5×2+4	6×3+20	7×3+17	30-3-2	4×2+30
44-4-2	6×2+9	8×4+6	(4+5)×3	6×9-29	2×9+13	4×9-11	7×5-8	(2+1)×3	2×3+3	14÷7+7	6×3+3	(4+1)×5	7×5-10	5×5-4	9×7-25
5×5-4	7×4-14	7×5-26	30-11-10	5×7-21	4×6-15	18÷2	43-18-11	8×3-15	8×3-17	28-17-4	(5+2)×2	(3+2)×5	32-3-8	7×6-17	40-10-9
25-2-16	2×6-5	(6+1)×2	2×3+1	2÷2+8	(1+2)×3	3×7-7	9×2-11	9×2-9	20-6-5	8×4-18	8×2-2	3×6+7	9×6-29	8×2+9	46-5-16
7×7-28	6×8-23	5×8-2	21-2-5	20÷4+2	18÷9+12	6×3-9	(2+5)×2	27-11-2	3×5-1	18÷9+5	42÷7+1	24-2-1	67-25-4	(18+1)×2	5×9-24
2×5+11	44-19-4	8×4-11	5×3+6	24-10-7	22-12-3	7×5-26	3×4-3	16÷4+3	24÷3+6	36-15-12	2×9-4	43-3-2	53-8-7	49-5-6	64-11-15
41-6-14	5×8-2	7×6-21	(1+4)×5	16÷8+5	28-2-17	4×5+1	2×9+7	4×5+1	12÷4+6	16-2-5	4×6+14	7×6-17	8×5-2	5×8-2	27-1-1
3×4+13	(1+4)×5	7×6-21	5×9-24	6÷2+11	23-7-2	7×3+4	3×7+17	34-1-8	14÷2	9×4-29	7×5-10	23-1-1	50-20-9	6×6-11	6×5+8
9-3-5	58-6-12	8×4+8	(1+2)×6	3×6+22	8×3+16	64÷8+10	4×3+6	5×5-24	3×8+16	9÷9	(4+5)×2	9×5-27	12-4-7	3÷3	2÷2

Name _____ Date _____

Mystery picture: mixed operations no. 18

Solve the sum in each square, find the answer in the colour key, and colour the square to match. Do multiplication and division before adding and subtracting, and brackets first. A picture will appear!

white
5, 28, 31

light blue
1, 35, 37

blue
24, 38, 39

red
6, 10, 27

yellow
3, 15, 18

brown
8, 34, 36

20-1-18	4÷4	4×5+15	5×9-8	18-6-11	2×9+17	8×5-5	2×5-9	6×8-13	38-2-1	2÷2	7×2-13	48÷6+10	26-3-8
2÷2	7×7-12	65-5-23	54-3-14	4×9+1	4×9-1	(3+1)×2	8×7-19	3×4+23	3×9-26	6×5+5	8×7-19	2×8+2	2×7-11
7×4+9	(3+4)×5	27-11-15	4×5+17	41-2-2	27-8-18	(1+8)×4	3×4+19	5÷5	2×7+21	3÷3	2÷2	5×6-29	3×7+16
45-7-1	6×8-13	66-28-1	8×5-5	7×5+2	2×5-9	7×3+13	20÷4	34-21-8	3×6+17	7×5+2	2×7-13	(5+2)×5	8÷8
50-11-2	47-5-5	6÷6	37-1-1	4×5+17	2×4+27	28-16-4	54-19-4	51-18-5	4×8-4	40-1-2	7×9-28	4×4+21	56-13-8
2×5+27	6×8-11	9×4-1	38-2-1	2×7-13	2×7+17	2×2+32	4×3+16	58-11-19	2×3-1	9×3+4	8÷8	2×8-15	4÷4
4÷4	3×4+25	46-5-6	56-20-1	52-19-2	5×2-5	5×4+16	56-21-4	55-10-14	7×6-14	4×4-11	45-6-8	3×5+22	5×3+20
3×3+26	63-19-7	6÷6	5×9-17	16÷8+3	7×8-25	7×4-20	7×2+17	18-12-1	38-6-1	(5+2)×4	37-3-3	3×6-13	2×8+21
3×2+29	4÷4	3×7+14	3×5+20	5×8-3	8×4+5	20-11-1	3×4+23	53-8-8	(6+1)×5	42-5-2	6×2+25	31-6-24	3×3+26
4×8+3	24÷4+4	2×8-10	3×5+12	37-3-7	4×9-26	(1+1)×5	3×4+15	39-11-1	(1+1)×3	3×8+3	33-20-7	3×6-12	6×5+7
7×7-11	6×4+14	19-2-7	(2+3)×2	21÷7+7	4×3-2	35÷7+1	32÷8+2	(8+1)×3	54÷9+4	8×2+11	16-4-2	8×8-25	3×9+11
8×6-10	9×3+12	(1+11)×2	9×2+21	(2+6)×3	6×9-15	(9+4)×3	52-4-9	(11+2)×3	(16+3)×2	3×4+12	42-2-1	9×5-21	6×9-15

Name _____ Date _____

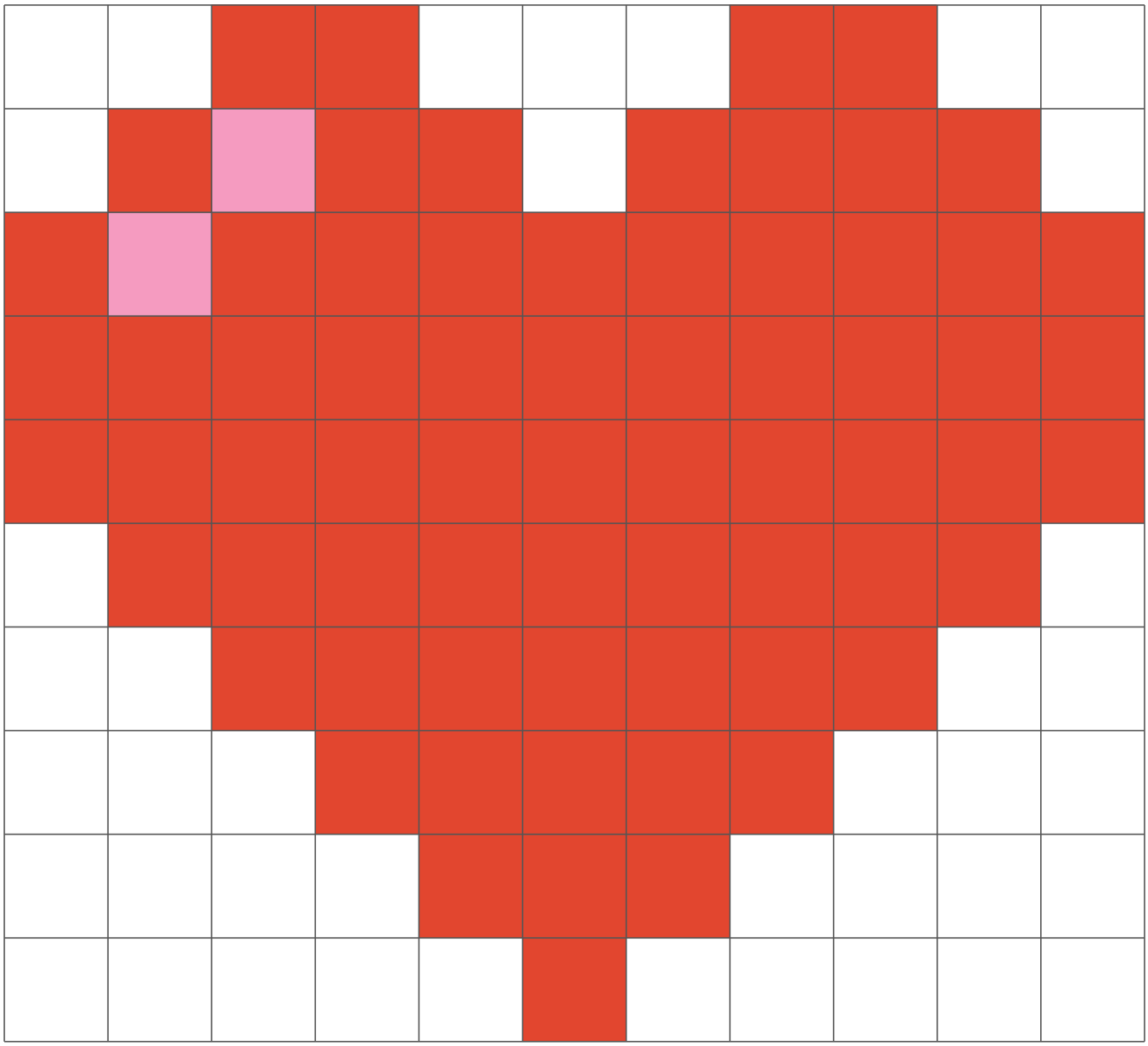
Answer key: Mystery picture: adding to 7 no. 1

Work out each square, find the answer in the colour key, and colour the square. A picture will appear!

white
2

red
6

pink
3



It's a heart!

Name _____ Date _____

Answer key: Mystery picture: adding to 7 no. 3

Work out each square, find the answer in the colour key, and colour the square. A picture will appear!

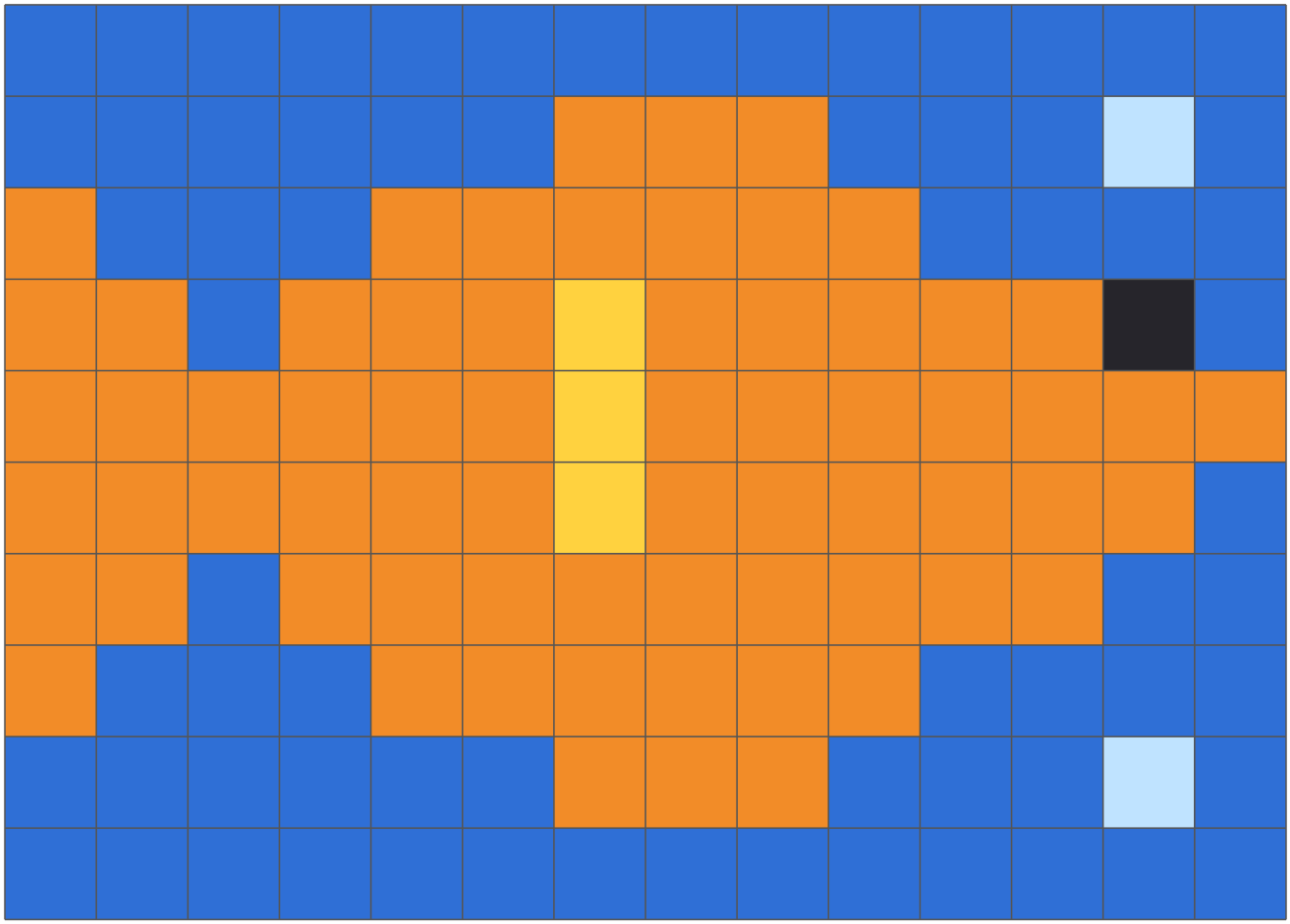
light blue
3

blue
7

orange
5

yellow
4

black
1



It's a fish!

Name _____ Date _____

Answer key: Mystery picture: adding and subtracting to 10 no. 4

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

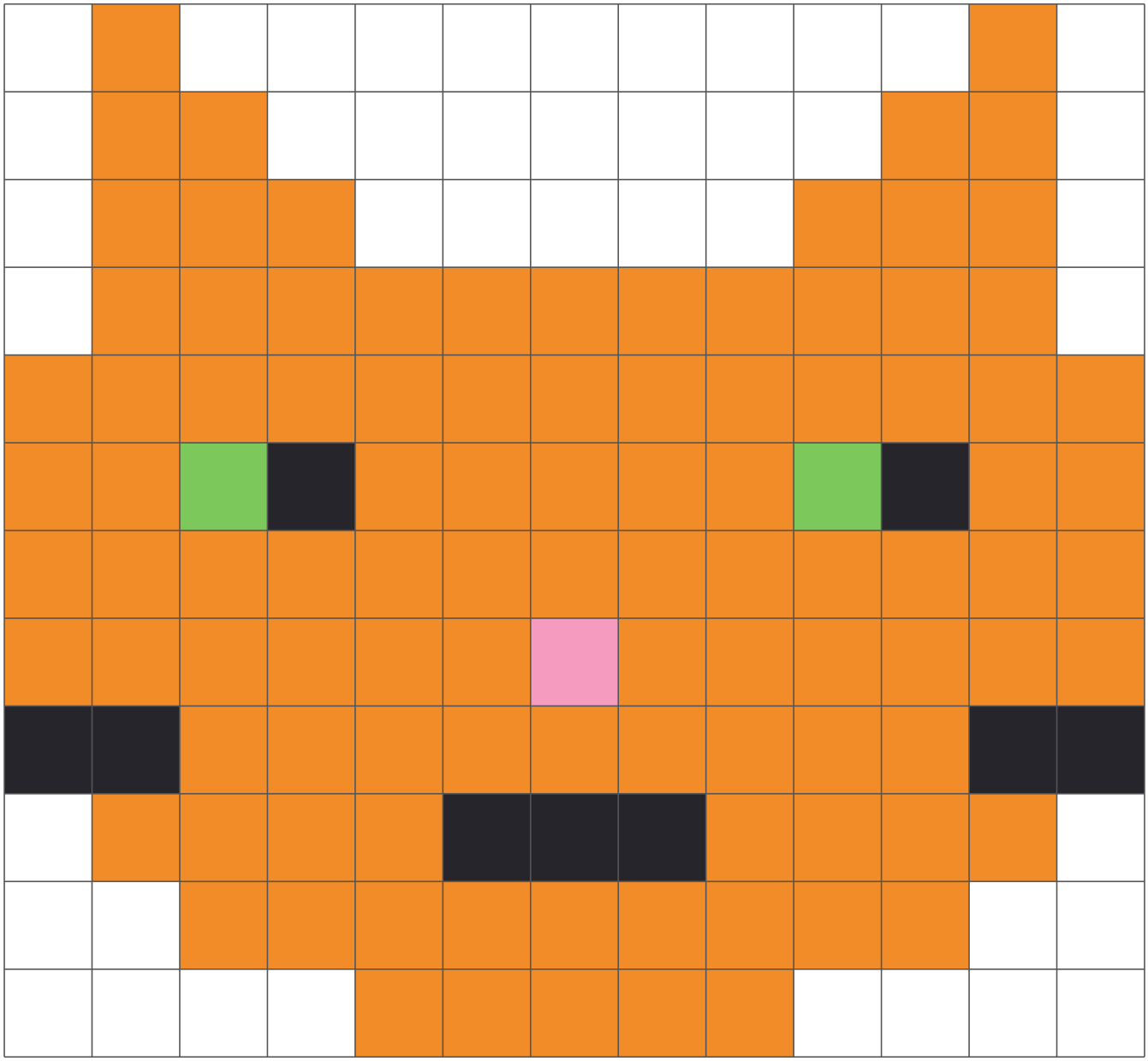
white
10

pink
6

orange
9

green
1

black
8



It's a cat!

Name _____ Date _____

Answer key: Mystery picture: adding and subtracting to 10 no. 21

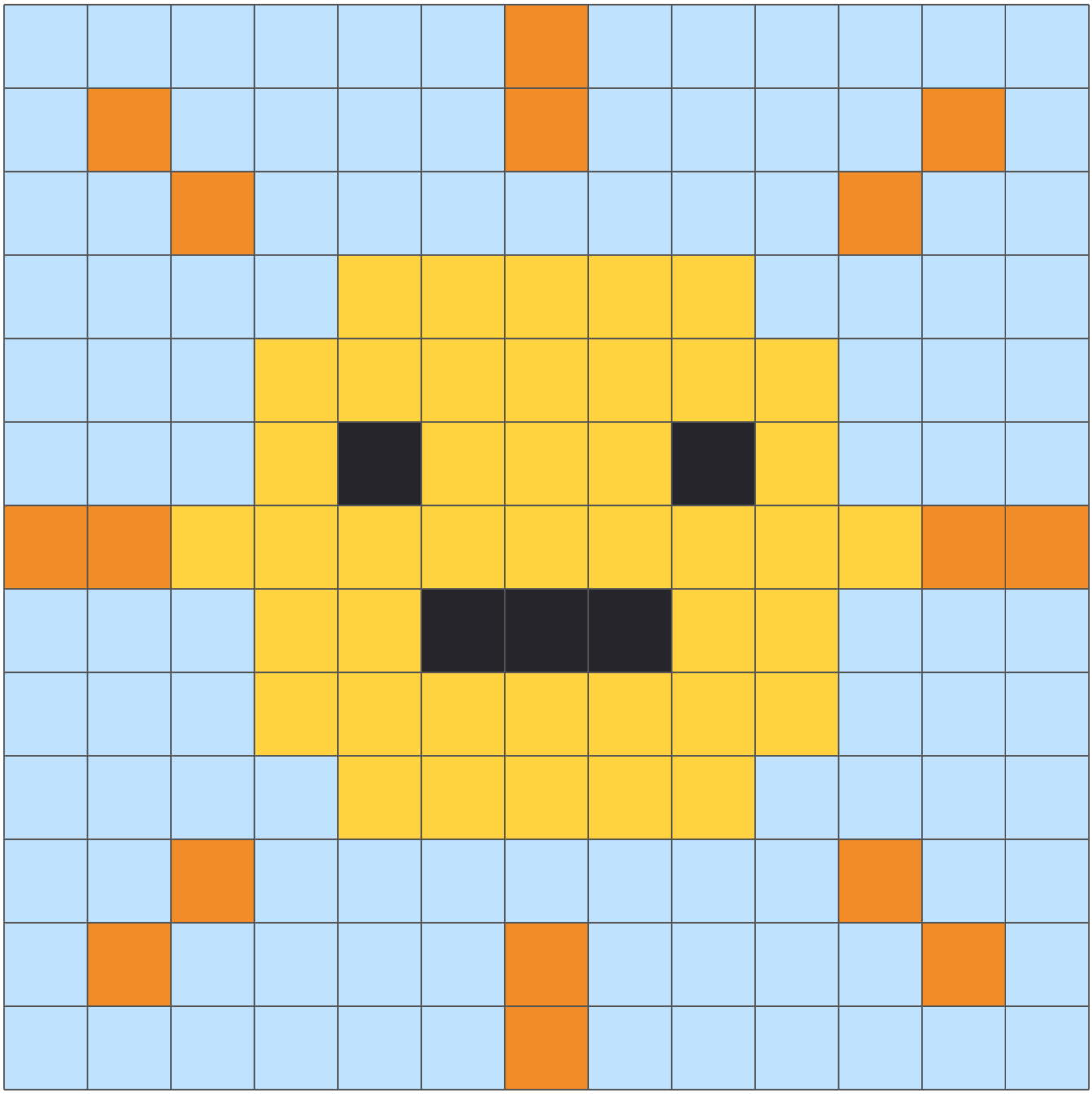
Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

light blue
2

orange
10

yellow
0

black
7



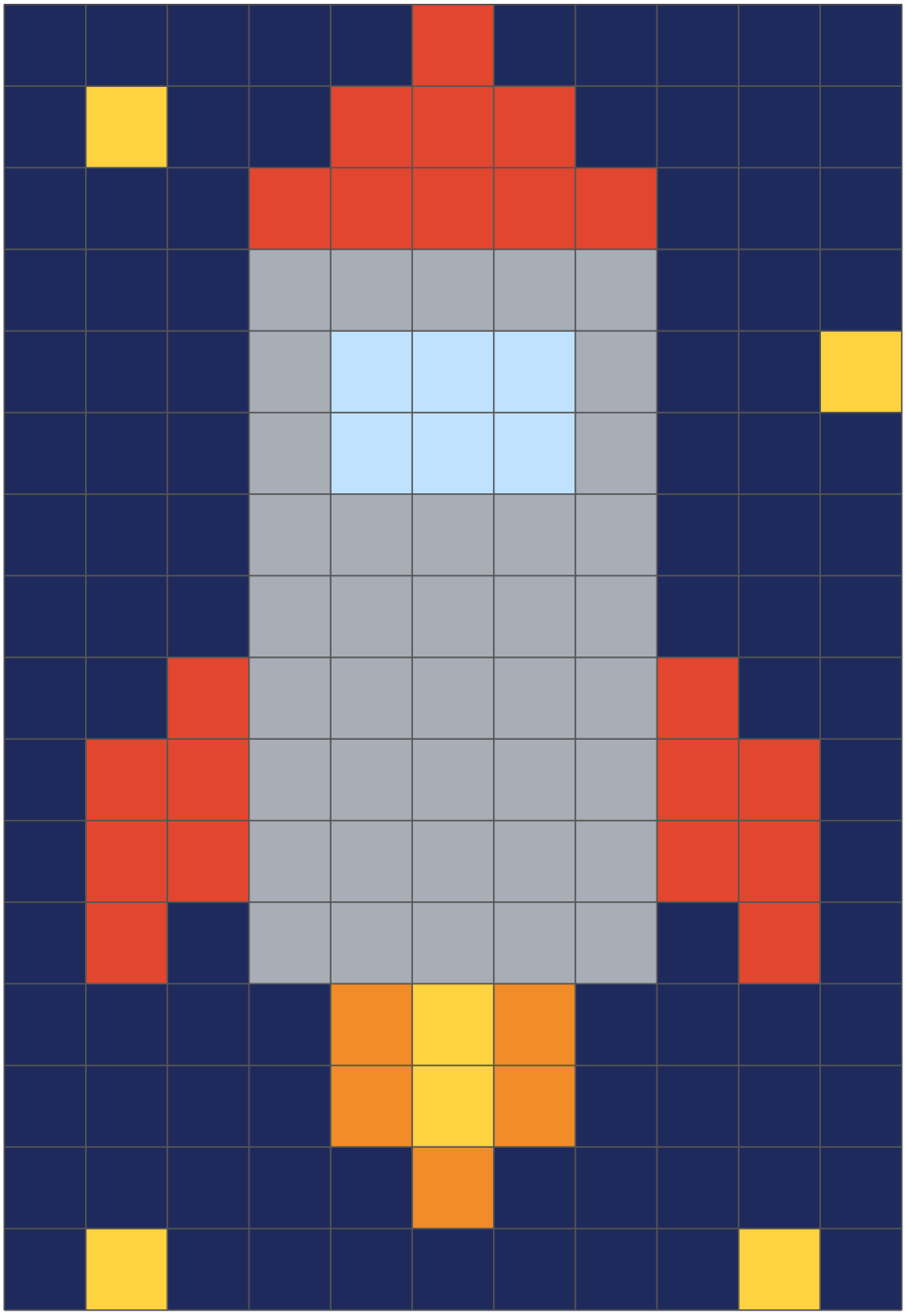
It's a sun!

Name _____ Date _____

Answer key: Mystery picture: adding and subtracting to 20 no. 22

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

- **light blue** 2, 11
- **navy** 7, 15
- **red** 6, 12
- **orange** 0, 20
- **yellow** 16, 17
- **grey** 8, 9



It's a rocket!

Name _____ Date _____

Answer key: Mystery picture: adding and subtracting to 20 no. 1

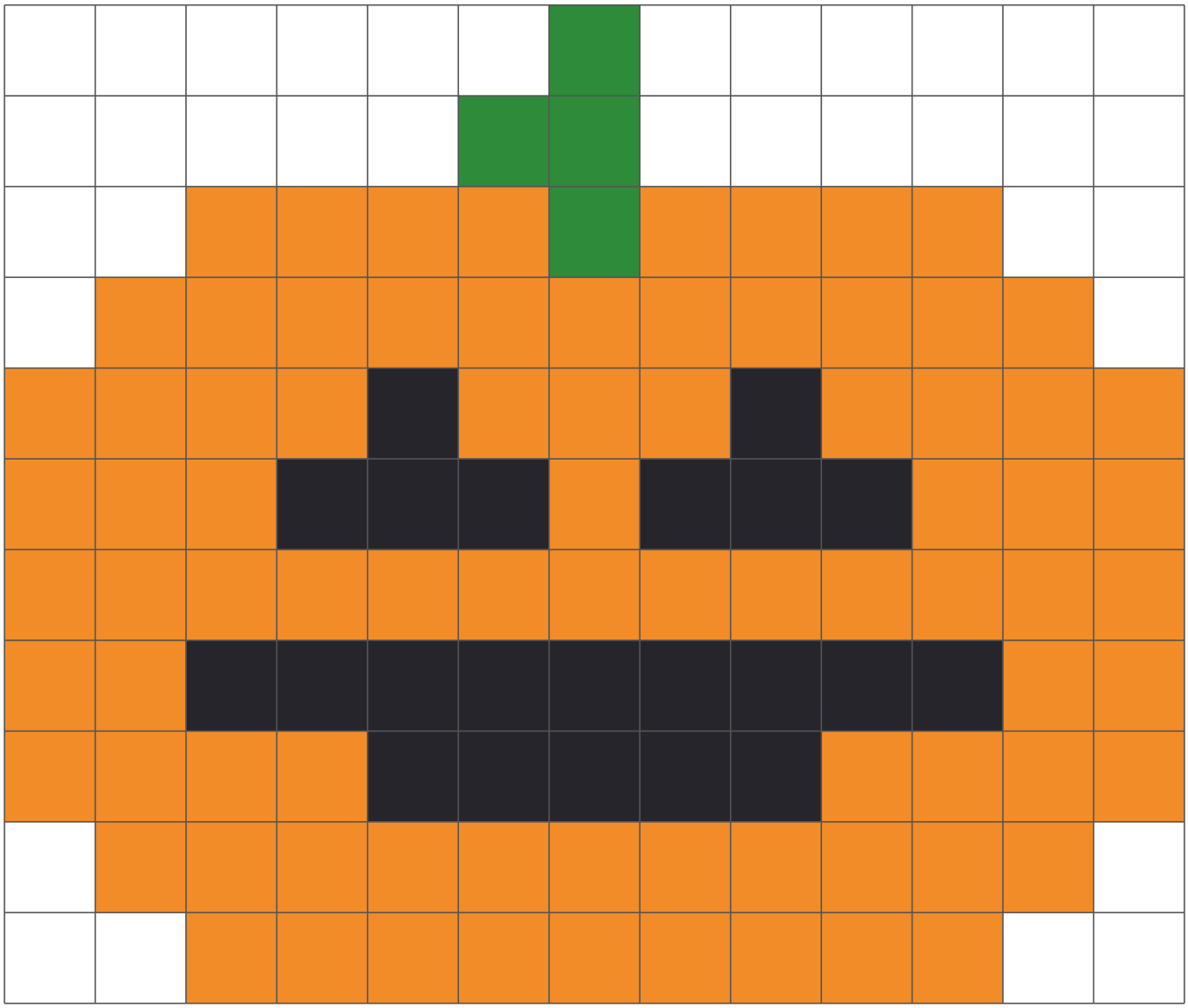
Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

white
16, 18

orange
4, 7

dark green
8, 10

black
3, 14



It's a pumpkin!

Name _____ Date _____

Answer key: Mystery picture: times tables no. 3

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

light blue
18, 49

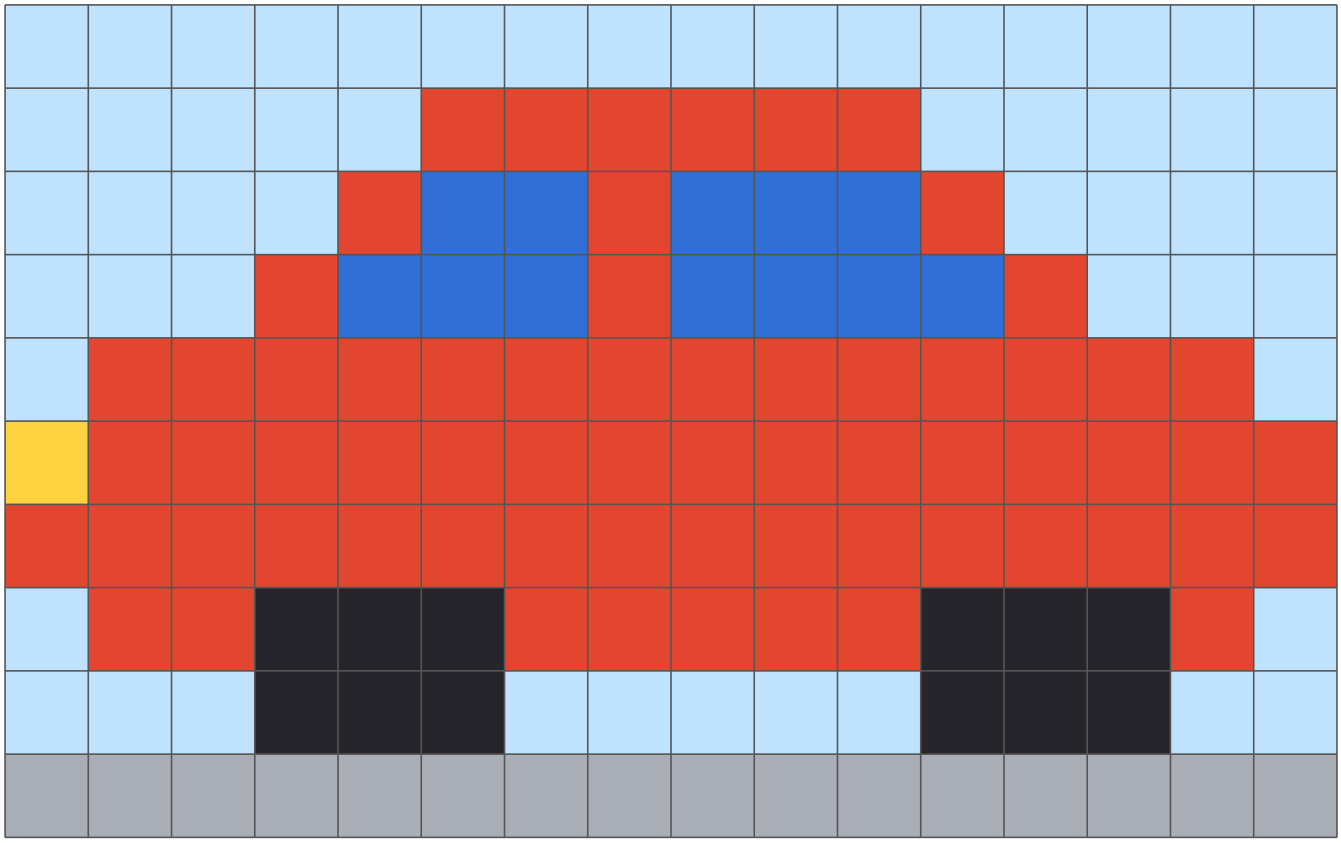
blue
21, 64

red
10, 27

yellow
8, 15

black
5, 24

grey
42, 48



It's a car!

Name _____ Date _____

Answer key: Mystery picture: times tables no. 24

Solve the sum in each square, find the answer in the colour key, and colour the square to match. A picture will appear!

white
5, 56

light blue
6, 42

orange
2, 10

yellow
12, 63

brown
8, 54

black
3, 27



It's a owl!

Name _____ Date _____

Answer key: Mystery picture: mixed operations no. 2

Solve the sum in each square, find the answer in the colour key, and colour the square to match. Do multiplication and division before adding and subtracting, and brackets first. A picture will appear!

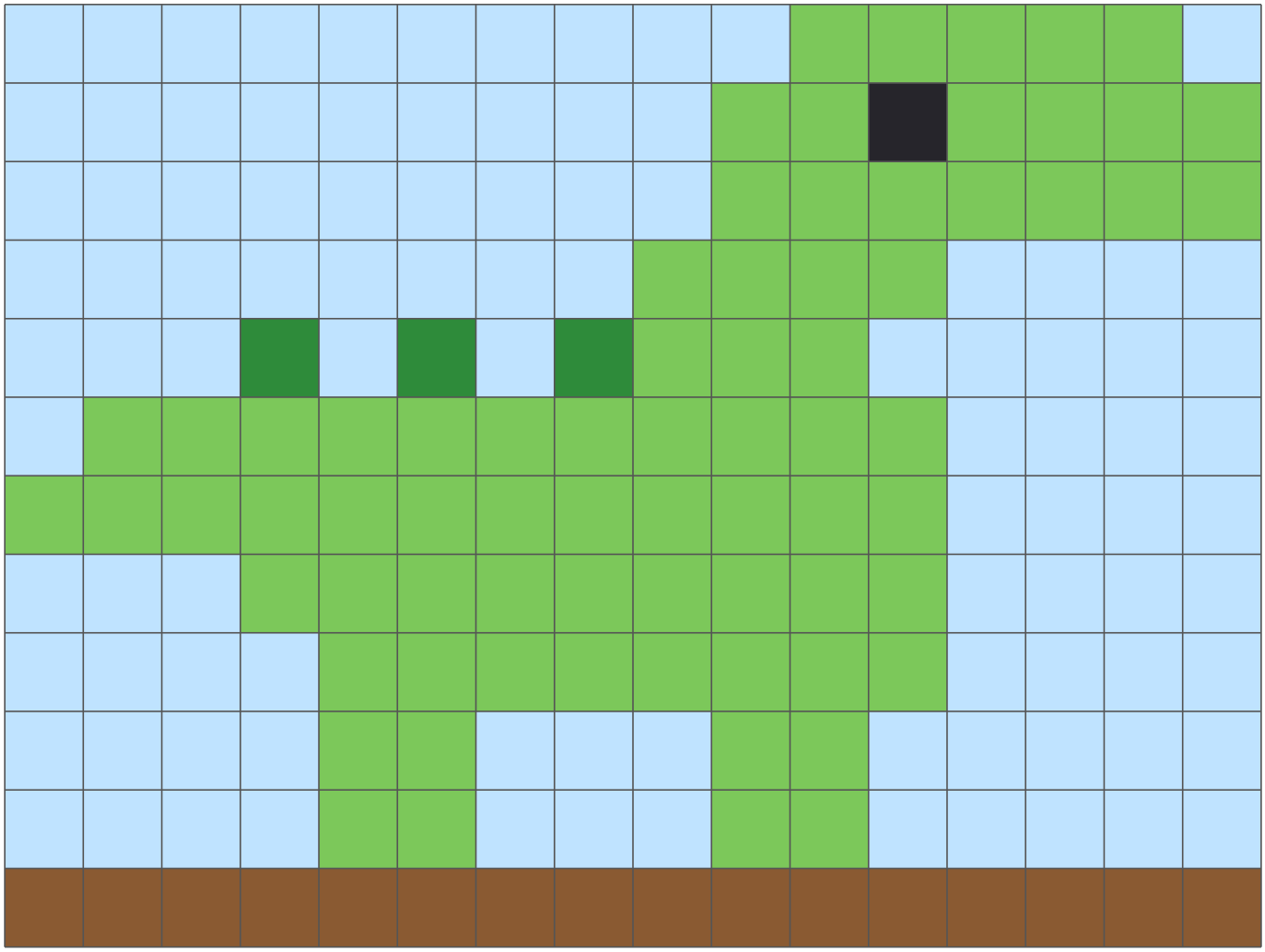
light blue
21, 25, 38

green
7, 9, 14

dark green
22, 27, 31

brown
1, 18, 40

black
2, 30, 37



It's a dinosaur!

Name _____ Date _____

Answer key: Mystery picture: mixed operations no. 18

Solve the sum in each square, find the answer in the colour key, and colour the square to match. Do multiplication and division before adding and subtracting, and brackets first. A picture will appear!

white
5, 28, 31

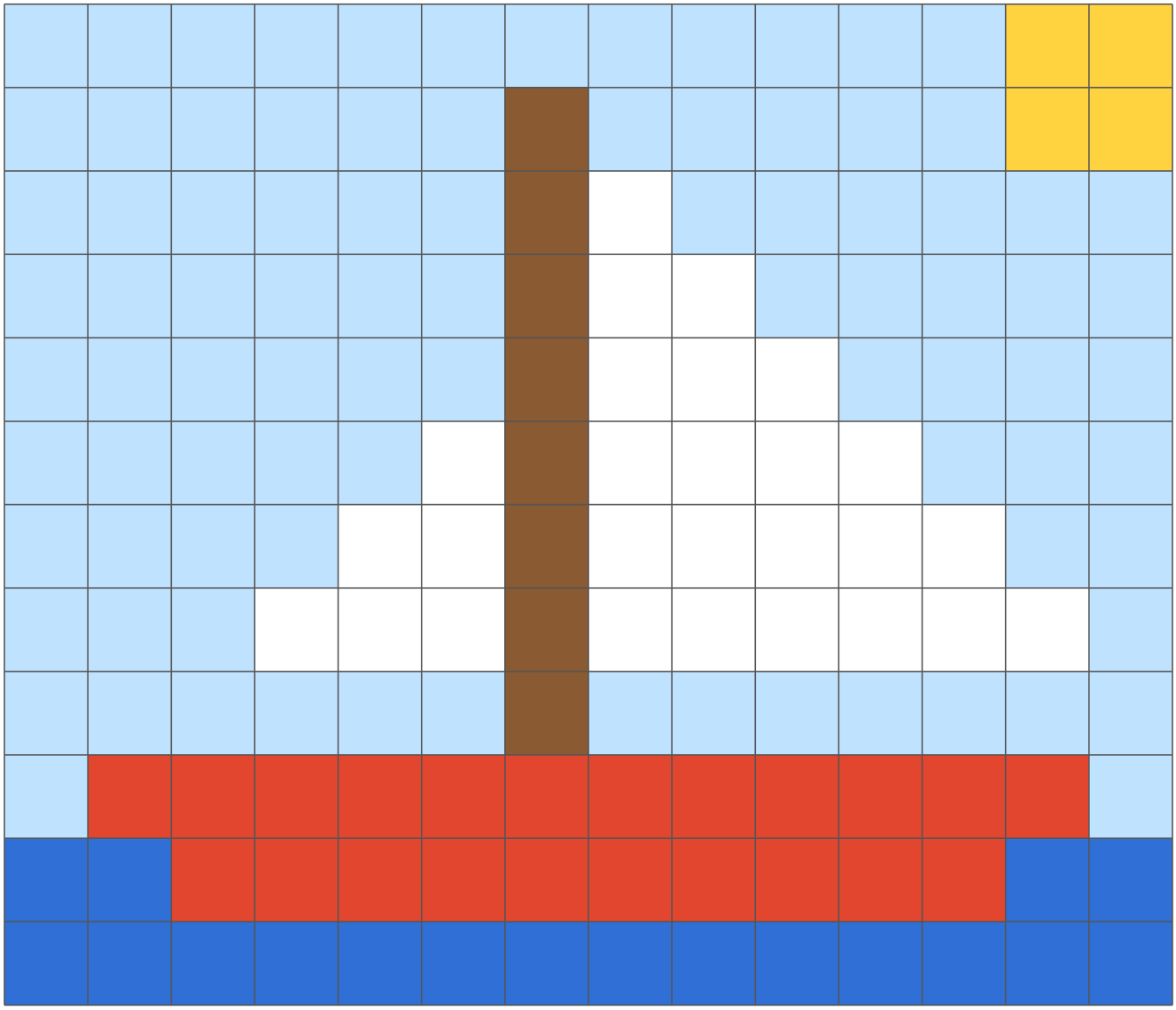
light blue
1, 35, 37

blue
24, 38, 39

red
6, 10, 27

yellow
3, 15, 18

brown
8, 34, 36



It's a sailing boat!