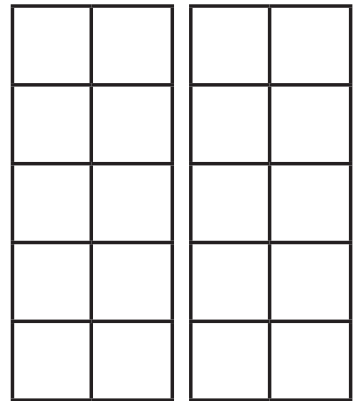
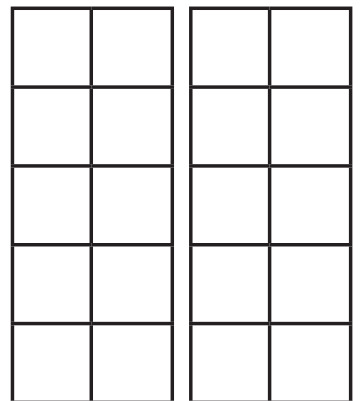


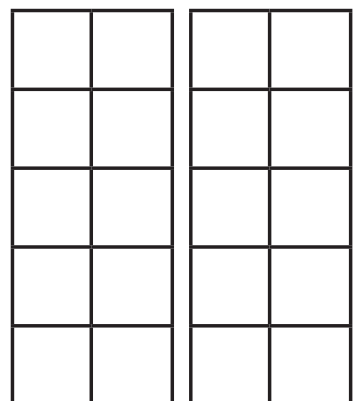
2 Use these tens frames to draw three more ways you could show the same number.



2 Use these tens frames to draw three more ways you could show the same number.



2 Use these tens frames to draw three more ways you could show the same number.



NC3-1

3 Use tens frames to draw three ways to show each of these.

a



b



NC3-1

3 Use tens frames to draw three ways to show each of these.

a



b



NC3-3

1 Fill in the missing numbers on these letterboxes.

a

b

c

d

e

f

g

2 Fill in the missing numbers on these number lines.



NC3–7

1 Fill in the missing numbers.

a 352 is _____ hundreds + _____ tens + _____ ones

or _____ tens + _____ ones

or _____ ones.

b \$567 is _____ \$100 + _____ \$10 + _____ \$1

or _____ \$10 + _____ \$1

or _____ \$1.

c 832 is _____ hundreds + _____ tens + _____ ones

or _____ tens + _____ ones

or _____ ones.

d 719 is _____ hundreds + _____ tens + _____ ones

or _____ tens + _____ ones

or _____ ones.

e \$490 is _____ \$100 + _____ \$10 + _____ \$1

or _____ \$10 + _____ \$1

or _____ \$1.

f 605 is _____ hundreds + _____ tens + _____ ones

or _____ tens + _____ ones

or _____ ones.

NC3–8

1 Use the diagrams to show these numbers.

a

H	T	O
6	5	7

or

or

b

H	T	O
7	2	8

or

or

c

H	T	O
3	0	8

or

or

d

H	T	O
	36	9

or

or

e

H	T	O
	27	8

or

or

f

H	T	O
		864

or

or

NC3–8

1 Use the diagrams to show these numbers.

a

H	T	O
6	5	7

or

or

b

H	T	O
7	2	8

or

or

c

H	T	O
3	0	8

or

or

d

H	T	O
	36	9

or

or

e

H	T	O
	27	8

or

or

f

H	T	O
		864

or

or

NC3–10

1 Fill in the gaps on your copy.

a $28 = 20 + \underline{\hspace{2cm}}$

$= 10 + \underline{\hspace{2cm}}$

b $36 = 30 + \underline{\hspace{2cm}}$

$= 20 + \underline{\hspace{2cm}}$

$= 10 + \underline{\hspace{2cm}}$

c $48 = 40 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + 18$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

d $55 = 50 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

e $62 = 60 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

f $72 = 50 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

NC3–10

1 Fill in the gaps on your copy.

a $28 = 20 + \underline{\hspace{2cm}}$

$= 10 + \underline{\hspace{2cm}}$

b $36 = 30 + \underline{\hspace{2cm}}$

$= 20 + \underline{\hspace{2cm}}$

$= 10 + \underline{\hspace{2cm}}$

c $48 = 40 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + 18$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

d $55 = 50 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

e $62 = 60 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

f $72 = 50 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

NC3–11

Practical

1 Mark these numbers on your number line.

a 7 **b** 13 **c** 18 **d** 24 **e** 29 **f** 31 **g** 38 **h** 44 **i** 47

NC3–11

Practical

1 Mark these numbers on your number line.

a 7 **b** 13 **c** 18 **d** 24 **e** 29 **f** 31 **g** 38 **h** 44 **i** 47

NC3–11

Practical

1 Mark these numbers on your number line.

a 7 **b** 13 **c** 18 **d** 24 **e** 29 **f** 31 **g** 38 **h** 44 **i** 47

NC3–11

Practical

1 Mark these numbers on your number line.

a 7 **b** 13 **c** 18 **d** 24 **e** 29 **f** 31 **g** 38 **h** 44 **i** 47

NC3–12

4 Fill in this table. The first two are done for you.

	Number	Numbers on the number line it is between	Rounded to the nearest ten	Rounded up or down
a	87	80 and 90	90	up
b	243	240 and 250	240	down
c	76			
d	91			
e	158			
f	184			
g	232			
h	367			
i	589			

NC3–12

4 Fill in this table. The first two are done for you.

	Number	Numbers on the number line it is between	Rounded to the nearest ten	Rounded up or down
a	87	80 and 90	90	up
b	243	240 and 250	240	down
c	76			
d	91			
e	158			
f	184			
g	232			
h	367			
i	589			

NC3–14

Game – Rounding, rounding

380	450	700	300	120	180	310	200	320	410
290	670	280	130	270	500	600	660	460	200
170	420	440	510	610	110	260	620	160	700
520	630	240	370	100	600	150	250	330	400
580	500	230	140	640	480	490	300	340	470
220	570	590	360	540	210	560	350	550	100
400	390	100	530	430	300	200	190	650	400

NC3–17

1 Fill in the gaps to find the estimate.

a 3×28 28 is about _____

$3 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 3×28 is about _____

b 2×43 43 is about _____

$2 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 2×43 is about _____

c 5×38 38 is about _____

$5 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 5×38 is about _____

d 3×61 61 is about _____

$3 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 3×61 is about _____

NC3–17

1 Fill in the gaps to find the estimate.

a 3×28 28 is about _____

$3 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 3×28 is about _____

b 2×43 43 is about _____

$2 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 2×43 is about _____

c 5×38 38 is about _____

$5 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 5×38 is about _____

d 3×61 61 is about _____

$3 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 3×61 is about _____

NC3–17

1 Fill in the gaps to find the estimate.

a 3×28 28 is about _____

$3 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 3×28 is about _____

b 2×43 43 is about _____

$2 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 2×43 is about _____

c 5×38 38 is about _____

$5 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 5×38 is about _____

d 3×61 61 is about _____

$3 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

So 3×61 is about _____

NC3–22

1 Fun file

Why was the maths book sad?

<u>17</u>	<u>16</u>		<u>9</u>	<u>12</u>	<u>13</u>		<u>16</u>	<u>6</u>	<u>6</u>		<u>3</u>	<u>12</u>	<u>N</u> <u>5</u>	<u>19</u>
<u>15</u>	<u>11</u>	<u>6</u>	<u>4</u>	<u>8</u>	<u>7</u>	<u>3</u>	<u>10</u>							

Put the red letter that is beside each question above its correct answer. The first one has been done.

N 20 - 15 = 5	I 8 + 9 = _____	L 14 - 6 = _____	H 15 - 6 = _____
D 18 - 5 = _____	T 5 + 11 = _____	M 17 - 14 = _____	S 18 - 8 = _____
R 17 - 6 = _____	A 5 + 7 = _____	Y 9 + 10 = _____	O 14 - 8 = _____
P 8 + 7 = _____	B 11 - 7 = _____	E 16 - 9 = _____	

NC3–22

1 Fun file

Why was the maths book sad?

<u>17</u>	<u>16</u>		<u>9</u>	<u>12</u>	<u>13</u>		<u>16</u>	<u>6</u>	<u>6</u>		<u>3</u>	<u>12</u>	<u>N</u> <u>5</u>	<u>19</u>
<u>15</u>	<u>11</u>	<u>6</u>	<u>4</u>	<u>8</u>	<u>7</u>	<u>3</u>	<u>10</u>							

Put the red letter that is beside each question above its correct answer. The first one has been done.

N 20 - 15 = 5	I 8 + 9 = _____	L 14 - 6 = _____	H 15 - 6 = _____
D 18 - 5 = _____	T 5 + 11 = _____	M 17 - 14 = _____	S 18 - 8 = _____
R 17 - 6 = _____	A 5 + 7 = _____	Y 9 + 10 = _____	O 14 - 8 = _____
P 8 + 7 = _____	B 11 - 7 = _____	E 16 - 9 = _____	

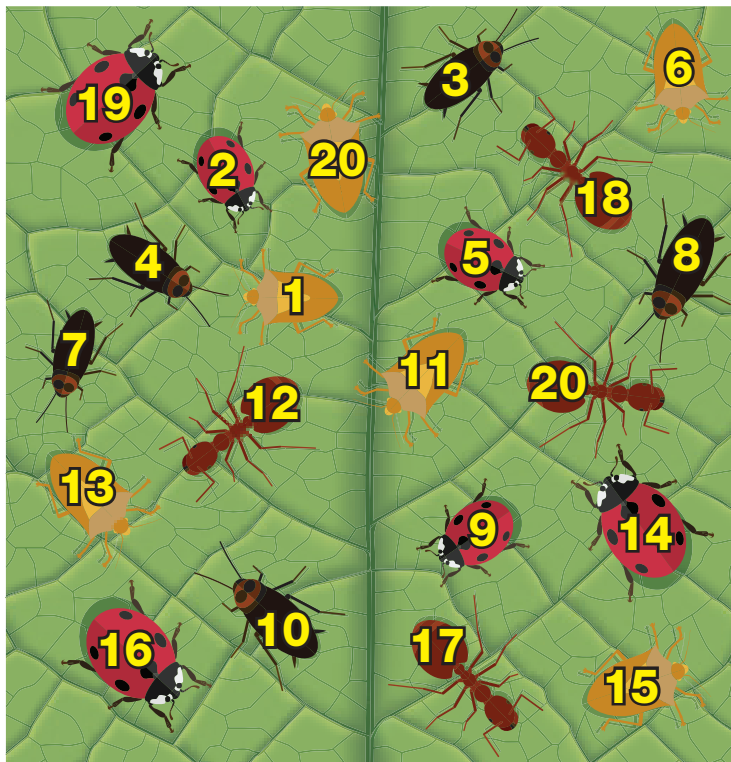
NC3–22

Puzzle 1 – Number bugs

Choose numbers from the bugs to make each equation true.

Repeat this five times for each equation.

You can use the numbers on the bugs as many times as you like.



a $\square + \square = 20$

$\square + \square = 20$

$\square + \square = 20$

$\square + \square = 20$

$\square + \square = 20$

b $\square + \square = 19$

$\square + \square = 19$

$\square + \square = 19$

$\square + \square = 19$

$\square + \square = 19$

c $\square + \square = 18$

$\square + \square = 18$

$\square + \square = 18$

$\square + \square = 18$

$\square + \square = 18$

d $\square + \square = 17$

$\square + \square = 17$

$\square + \square = 17$

$\square + \square = 17$

$\square + \square = 17$

e $\square - \square = 3$

$\square - \square = 3$

$\square - \square = 3$

$\square - \square = 3$

$\square - \square = 3$

f $\square - \square = 7$

$\square - \square = 7$

$\square - \square = 7$

$\square - \square = 7$

$\square - \square = 7$

NC3–23

Puzzle 3 – Square problems

Fill in these addition squares.

a

+	8	3	5	7
9				
11				
12				
6				

b

+	14	15	12	13
0				
4				
3				
5				

NC3–23

Puzzle 3 – Square problems

Fill in these addition squares.

a

+	8	3	5	7
9				
11				
12				
6				

b

+	14	15	12	13
0				
4				
3				
5				

NC3–23

Puzzle 4 – Addition square

Fill in this addition square in as many ways as possible.

+		
	19	17
	16	

+		
	19	17
	16	

+		
	19	17
	16	

+		
	19	17
	16	

+		
	19	17
	16	

+		
	19	17
	16	

+		
	19	17
	16	

+		
	19	17
	16	

+		
	19	17
	16	

NC3–24

Game – Make a rhombus (page 1 of 3)

1

2

3

4

5

6

7

8

9

10

11

12

NC3-24

Game – Make a rhombus (page 2 of 3)

13

14

15

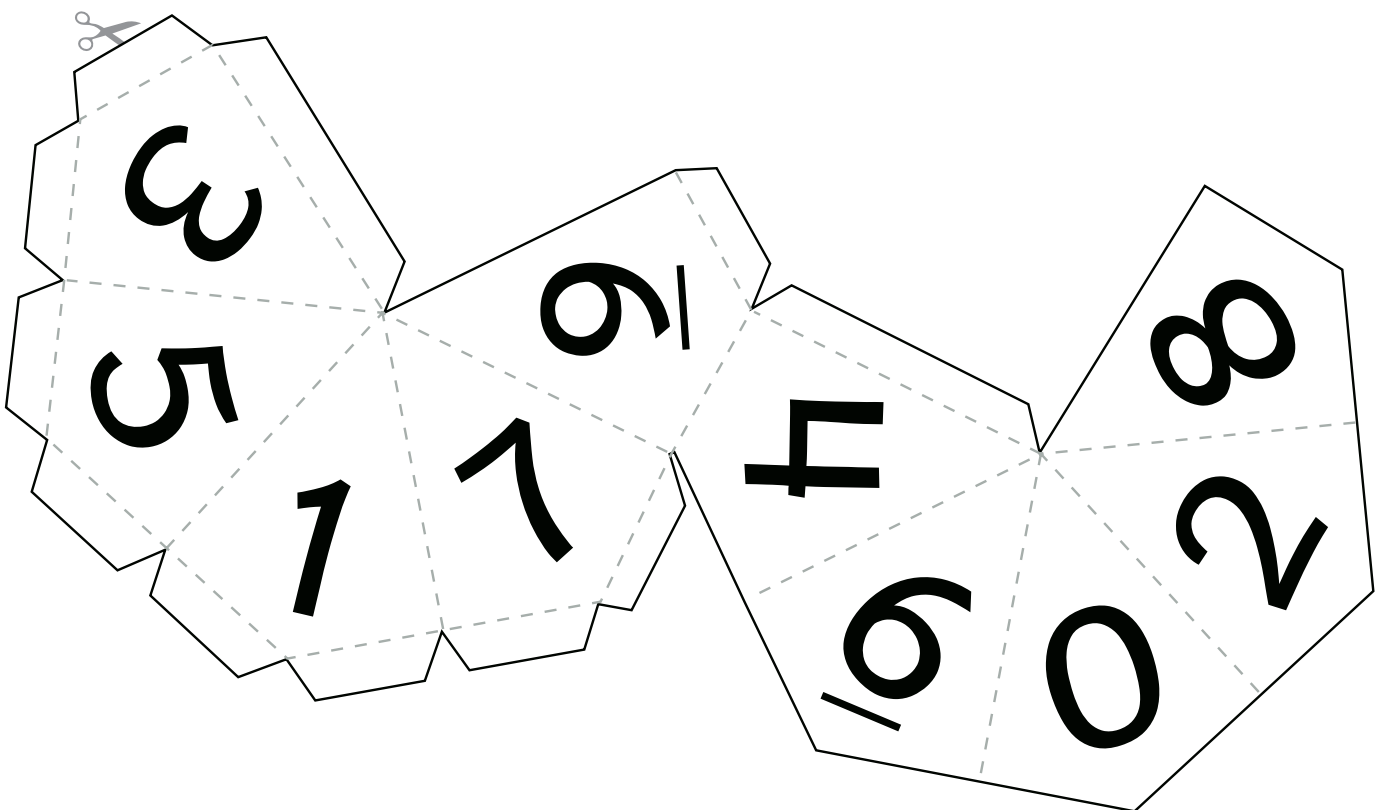
16

17

18

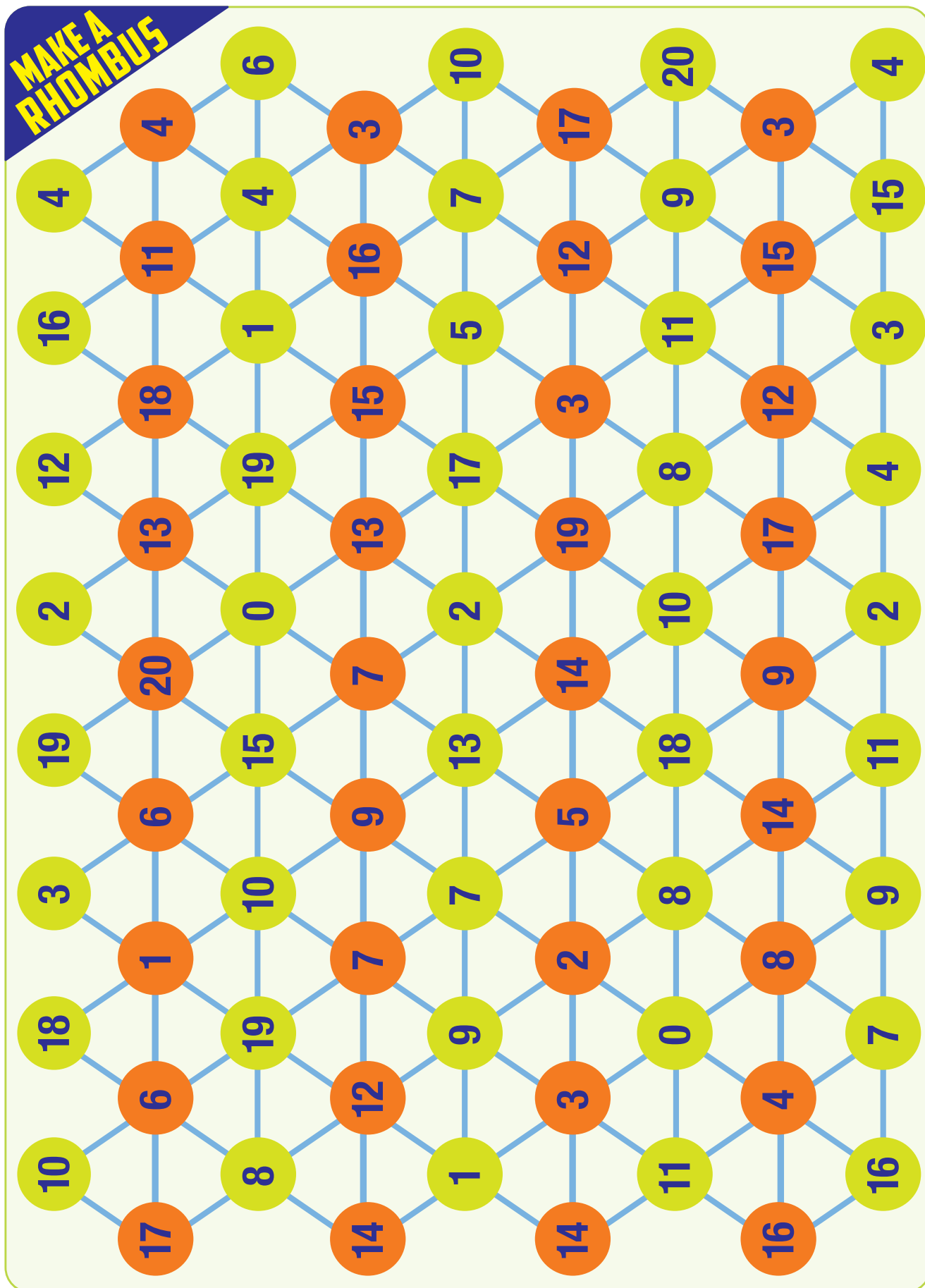
19

20



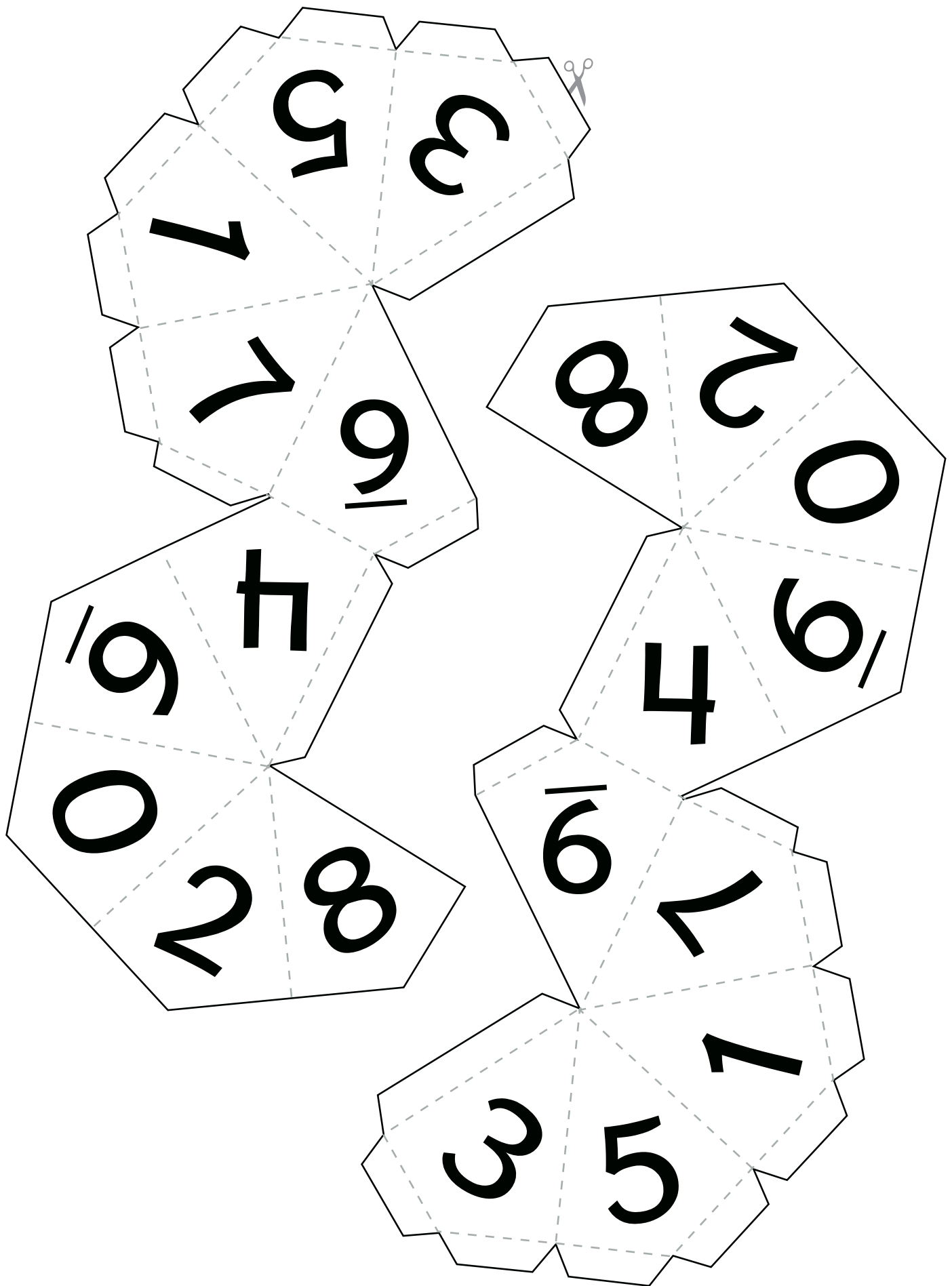
NC3-24

Game – Make a rhombus (page 3 of 3)



NC3–29

Game – Make me up to ...



Practical

[illegible]

Practical

[illegible]

Practical

[illegible]

NC3-31



2 Fill in the gaps.

a $6 \times 7 = \underline{\hspace{2cm}} \times 7 + 7$

$= \underline{\hspace{2cm}} + 7$

$= \underline{\hspace{2cm}}$

b $9 \times 8 = \underline{\hspace{2cm}} \times 8 - 8$

$= \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

c $6 \times 8 = \underline{\hspace{2cm}} \times 8 + 8$

$= \underline{\hspace{2cm}} + 8$

$= \underline{\hspace{2cm}}$

d $6 \times 9 = \underline{\hspace{2cm}} \times 9 - 8$

$= \underline{\hspace{2cm}} - 8$

$= \underline{\hspace{2cm}}$

NC3-31

2 Fill in the gaps.

a $6 \times 7 = \underline{\hspace{2cm}} \times 7 + 7$

$= \underline{\hspace{2cm}} + 7$

$= \underline{\hspace{2cm}}$

b $9 \times 8 = \underline{\hspace{2cm}} \times 8 - 8$

$= \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

c $6 \times 8 = \underline{\hspace{2cm}} \times 8 + 8$

$= \underline{\hspace{2cm}} + 8$

$= \underline{\hspace{2cm}}$

d $6 \times 9 = \underline{\hspace{2cm}} \times 9 - 8$

$= \underline{\hspace{2cm}} - 8$

$= \underline{\hspace{2cm}}$



NC3–32

2 Fill in the gaps.

a $3 \times 41 = 3 \times \underline{\hspace{2cm}} + 3 \times 1$

$= \underline{\hspace{2cm}} + 3$

$= \underline{\hspace{2cm}}$

b $2 \times 62 = 2 \times \underline{\hspace{2cm}} + 2 \times \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

c $3 \times 25 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

NC3–32

2 Fill in the gaps.

a $3 \times 41 = 3 \times \underline{\hspace{2cm}} + 3 \times 1$

$= \underline{\hspace{2cm}} + 3$

$= \underline{\hspace{2cm}}$

b $2 \times 62 = 2 \times \underline{\hspace{2cm}} + 2 \times \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

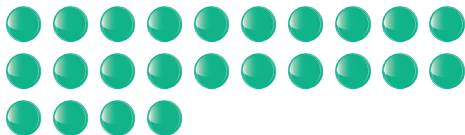
c $3 \times 25 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

NC3–36

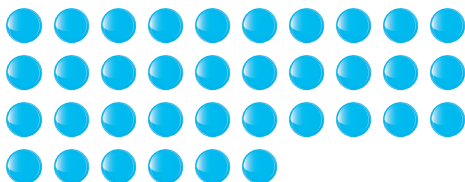
1 Work out the answers by grouping the circles.

a $24 \div 4$ 

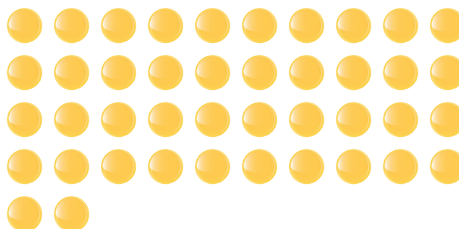
$24 \div 4 = \underline{\hspace{2cm}}$

b $16 \div 4$ 

$16 \div 4 = \underline{\hspace{2cm}}$

c $36 \div 9$ 

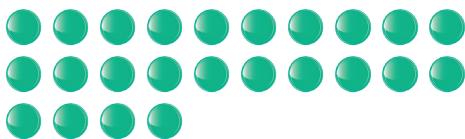
$36 \div 9 = \underline{\hspace{2cm}}$

d $42 \div 7$ 

$42 \div 7 = \underline{\hspace{2cm}}$

NC3–36

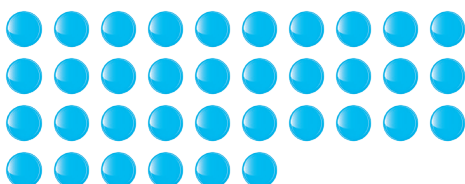
1 Work out the answers by grouping the circles.

a $24 \div 4$ 

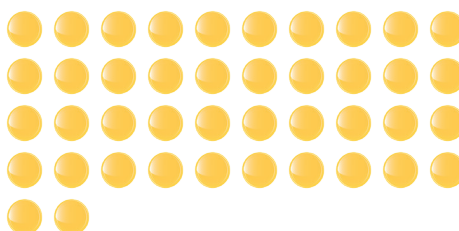
$24 \div 4 = \underline{\hspace{2cm}}$

b $16 \div 4$ 

$16 \div 4 = \underline{\hspace{2cm}}$

c $36 \div 9$ 

$36 \div 9 = \underline{\hspace{2cm}}$

d $42 \div 7$ 

$42 \div 7 = \underline{\hspace{2cm}}$

NC3-40

1 Colour these fraction strips. Use them to find the answer.

a $\frac{3}{6} - \frac{1}{6} =$ _____

--	--	--	--	--	--

b $\frac{7}{8} - \frac{3}{8} =$ _____

--	--	--	--	--	--	--	--

c $\frac{9}{10} - \frac{4}{10} =$ _____

--	--	--	--	--	--	--	--

d $\frac{4}{5} - \frac{2}{5} =$ _____

--	--	--	--	--

e $\frac{3}{4} - \frac{2}{4} =$ _____

--	--	--	--

f $\frac{2}{4} - \frac{2}{4} =$ _____

--	--	--	--

g $\frac{8}{10} - \frac{3}{10} =$ _____

--	--	--	--	--	--	--	--

h $\frac{6}{8} - \frac{4}{8} =$ _____

--	--	--	--	--	--	--	--

i $\frac{9}{10} - \frac{1}{10} - \frac{3}{10} =$ _____

--	--	--	--	--	--	--	--

j $\frac{7}{8} - \frac{1}{8} - \frac{2}{8} =$ _____

--	--	--	--	--	--	--	--

NC3-40

1 Colour these fraction strips. Use them to find the answer.

a $\frac{3}{6} - \frac{1}{6} =$ _____

--	--	--	--	--	--

b $\frac{7}{8} - \frac{3}{8} =$ _____

--	--	--	--	--	--	--	--

c $\frac{9}{10} - \frac{4}{10} =$ _____

--	--	--	--	--	--	--	--

d $\frac{4}{5} - \frac{2}{5} =$ _____

--	--	--	--	--

e $\frac{3}{4} - \frac{2}{4} =$ _____

--	--	--	--

f $\frac{2}{4} - \frac{2}{4} =$ _____

--	--	--	--

g $\frac{8}{10} - \frac{3}{10} =$ _____

--	--	--	--	--	--	--	--

h $\frac{6}{8} - \frac{4}{8} =$ _____

--	--	--	--	--	--	--	--

i $\frac{9}{10} - \frac{1}{10} - \frac{3}{10} =$ _____

--	--	--	--	--	--	--	--

j $\frac{7}{8} - \frac{1}{8} - \frac{2}{8} =$ _____

--	--	--	--	--	--	--	--

NC3–42

1  Tick the boxes to show how you could make the amount.

Amount	\$1	\$2	\$5	\$10	\$20	\$50	\$100
\$6							
\$9							
\$17							
\$36							
\$59							
\$86							
\$109							
\$187							
\$251							
\$368							

NC3–42

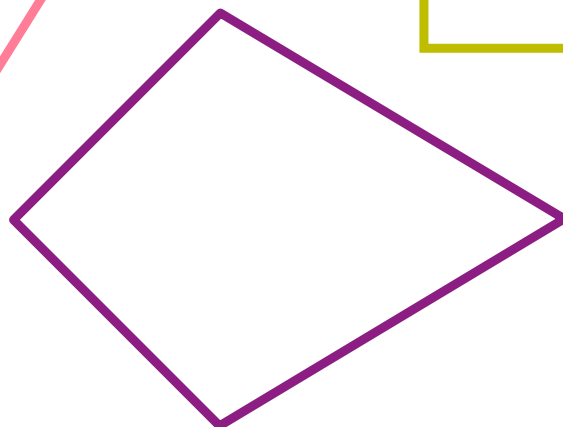
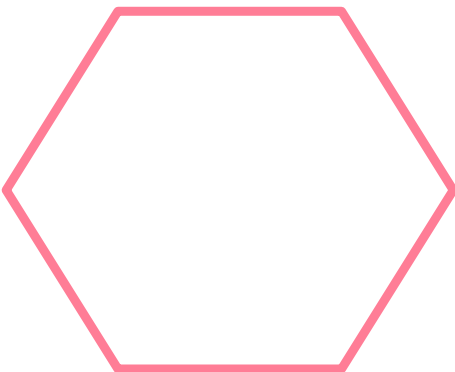
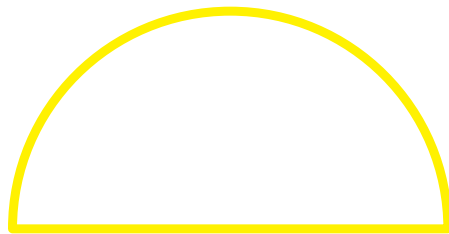
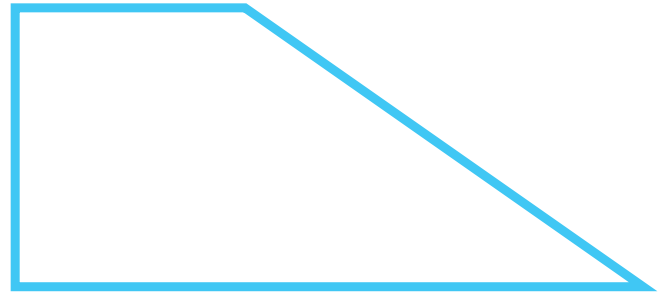
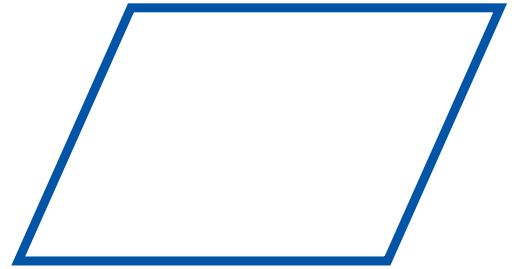
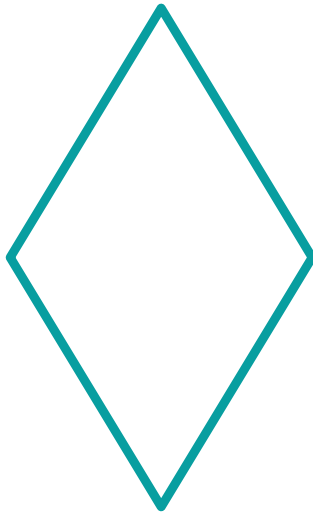
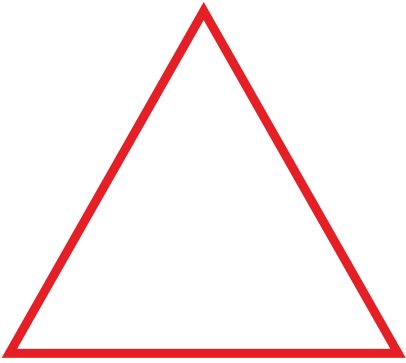
1  Tick the boxes to show how you could make the amount.

Amount	\$1	\$2	\$5	\$10	\$20	\$50	\$100
\$6							
\$9							
\$17							
\$36							
\$59							
\$86							
\$109							
\$187							
\$251							
\$368							

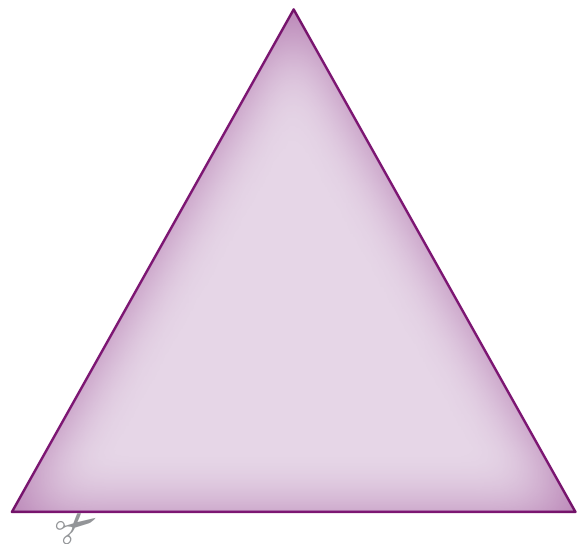
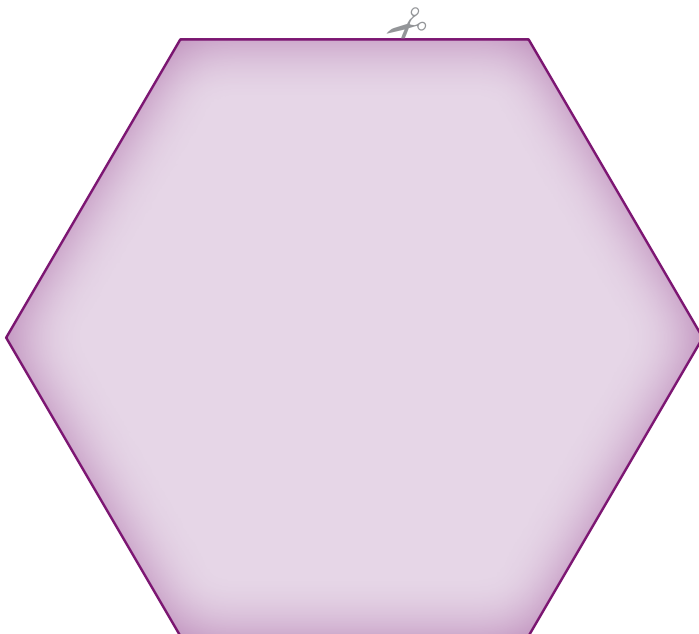
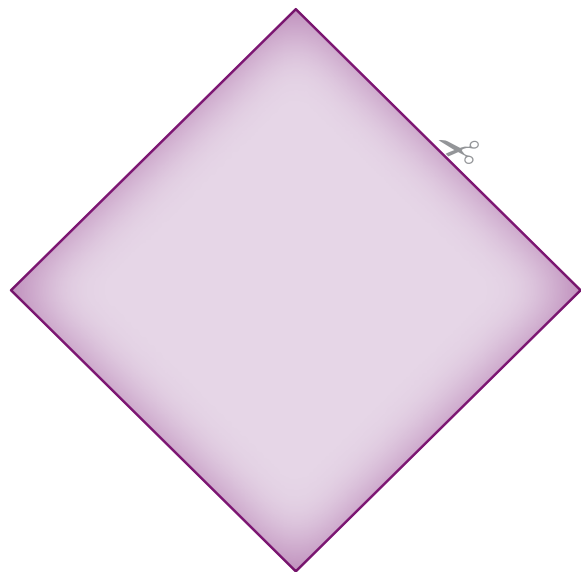
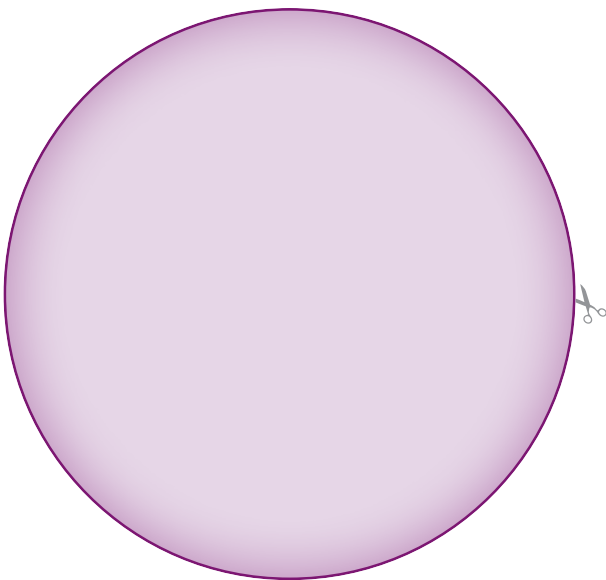
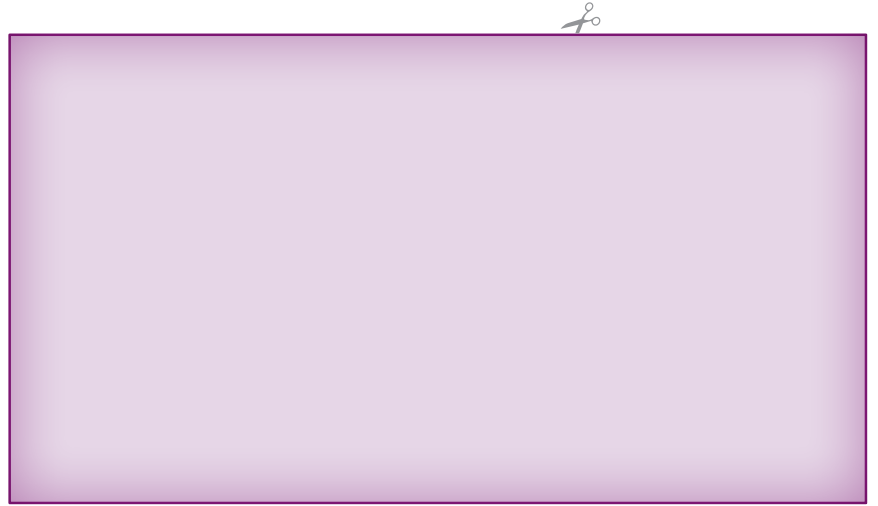
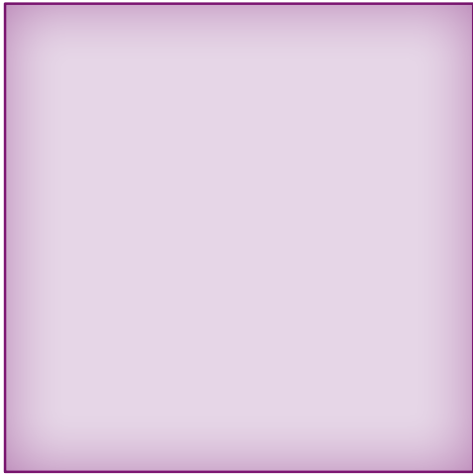
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Practical – Mirror Mirror

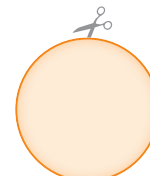
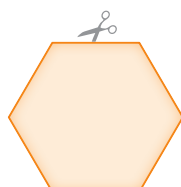
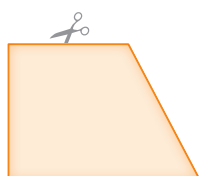
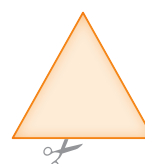
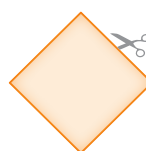
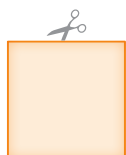
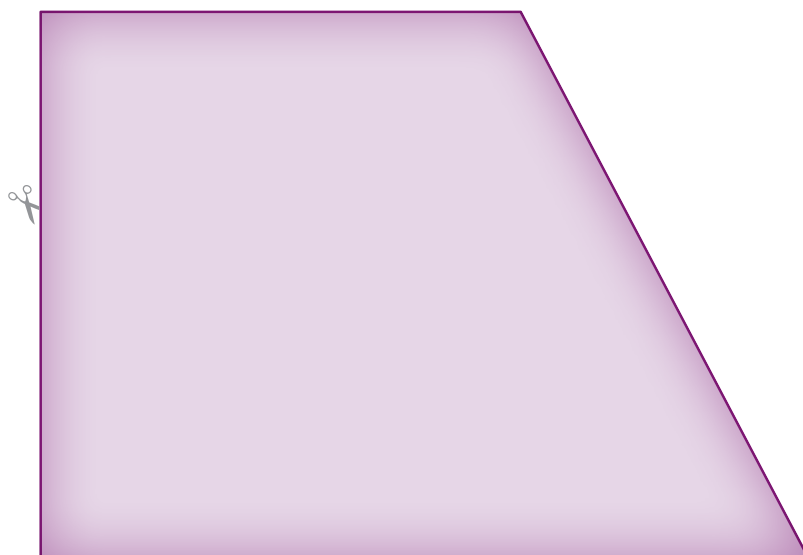
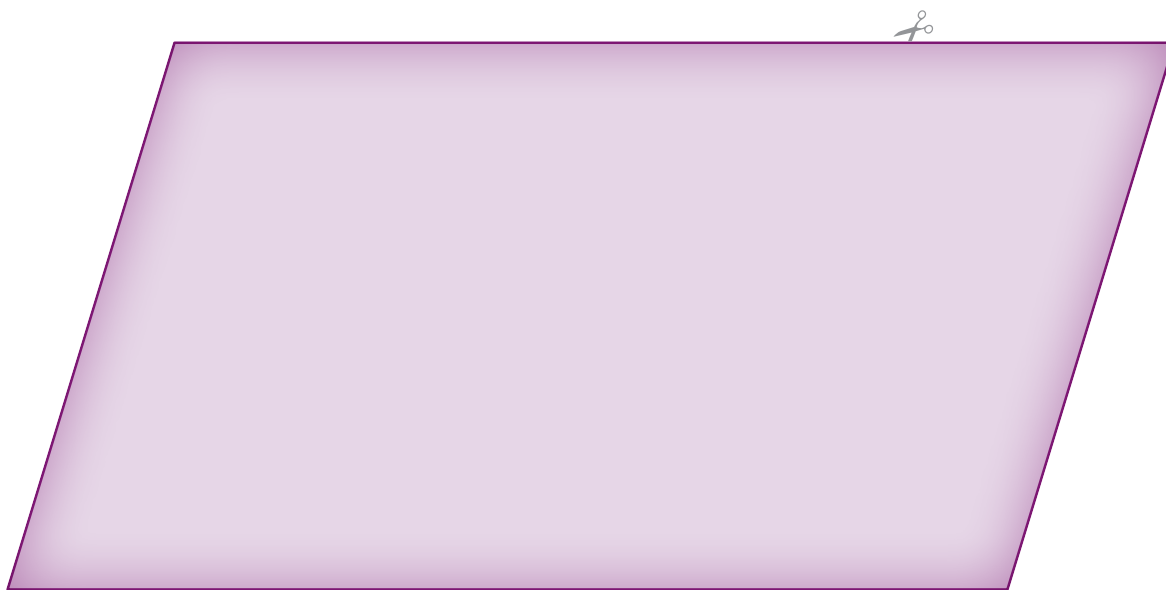
Use a mirror to check which of these shapes is symmetrical.
If the shape is **symmetrical**, draw on the mirror line.



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Practical – Shape up (page 1 of 2)

NC3-57

Practical – Shape up (page 2 of 2)

NC3–58

Practical – Tangrams