Y1/2 Fractions and Multiplication Unit 1 (12572)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Y1 Counting in 2s Sheet 1
Working towards ARE
Children count and record the number of eyes, shoes (blue or green) and gloves in the picture.

Day 1 Y1 Counting in 2s Sheet 2
Working at ARE / Greater Depth
Children count and record the number of eyes, shoes (blue or green) and gloves in the picture.

Day 1 Y2 Odds and evens Sheet 3
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE make at least 5 of each. Children can use a number grid to locate and check numbers.
Working at ARE make at least 10 odd and 10 even numbers.
Greater Depth make at least 10 of each with 2-digits and then 5 of each with 3-digits.

Day 2 Y1 Find the odd numbers Sheet 1
Working towards ARE

Day 2 Y1 Sort the numbers Sheet 2
Working at ARE / Greater Depth
Greater Depth add six of their own numbers to the table.

Day 2 Y2 Spot the pattern Sheet 3
Working towards ARE / Working at ARE
Working towards ARE complete the patterns.
Working at ARE complete the patterns and attempt the Challenge.

Day 2 Y2 Spot the pattern Sheet 4
Working at ARE / Greater Depth
Greater Depth complete all patterns and attempt the Challenge.

Day 3 Y1 Fish doubles Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE write the doubles number sentence and may use cubes to support.

Day 3 Y2 Multiples of 3 Sheet 2
Working towards ARE

Day 3 Y2 Multiples of 3 Sheet 3
Working at ARE / Greater Depth
Children may use a 1-100 grid to check their answers.

Y1/2 Fractions and Multiplication Unit 1 (12572)

Additional teacher instructions for practice sheets continued

These notes indicate which practice sheets are most appropriate for which groups.

Day 4 Y1 Doubles Sheet 1
Working towards ARE / Working at ARE

Day 4 Y1 Doubles Sheet 2
Greater Depth

Day 4 Y2 Multiplying by 2, 3, 5 and 10 Sheet 3
Working towards ARE / Working at ARE / Greater Depth
Beaded number lines should be available for children who need them, otherwise encourage children to count on multiples with fingers or in their heads then use a beaded line to check.

Day 5 Y1 Halving problems Sheet 1
Working towards ARE / Working at ARE
Working towards ARE use cubes to help.

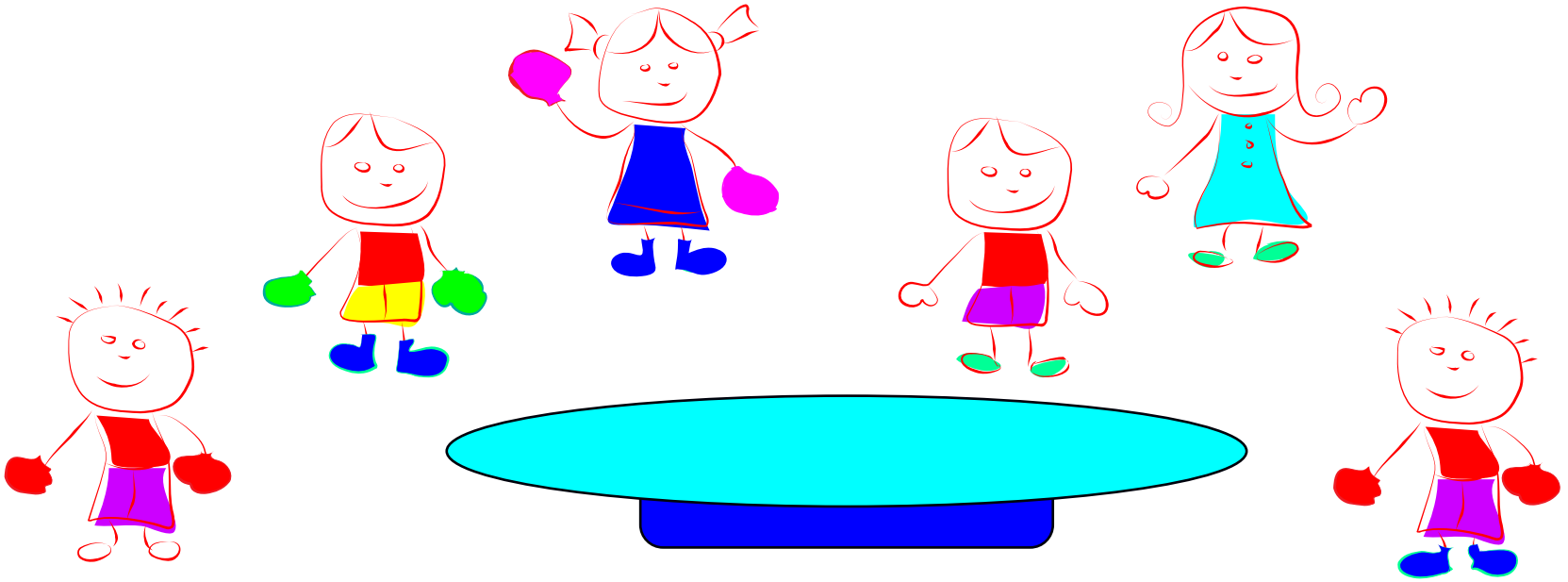
Day 5 Y1 Halving Sheet 2
Greater Depth

Day 5 Y2 Sorting numbers Sheet 3
Working towards ARE / Working at ARE
Working towards ARE complete Set 1
Working at ARE complete both sets.

Day 5 Y2 Sorting numbers Sheet 4
Greater Depth

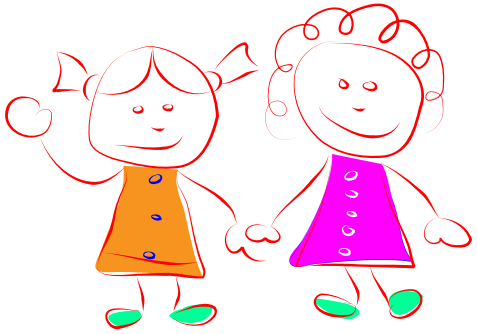
Counting in 2s

Sheet 1



I counted...

- ☐ eyes
- ☐ hands with gloves
- ☐ blue shoes
- ☐ green shoes



Counting in 2s

Sheet 2

I counted...

☐ eyes

☐ hands with gloves

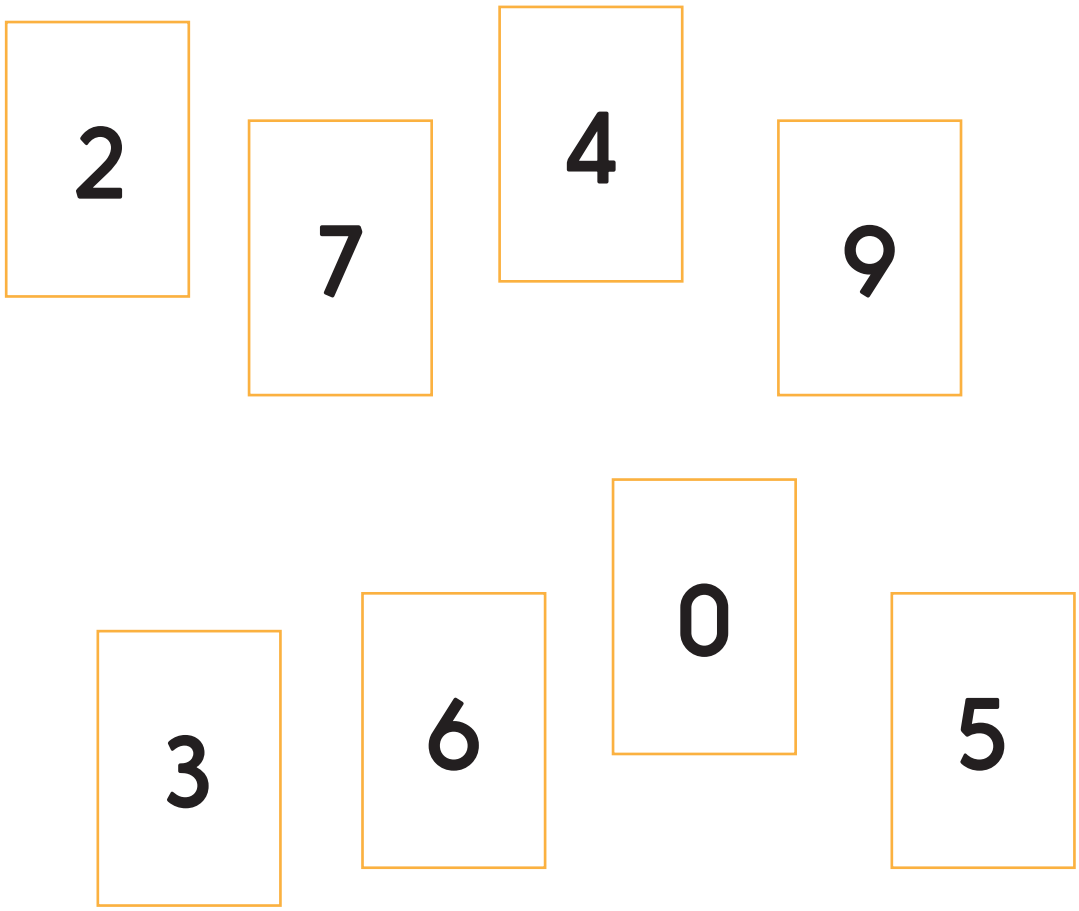
☐ blue shoes

☐ green shoes

Odds and evens

Sheet 3

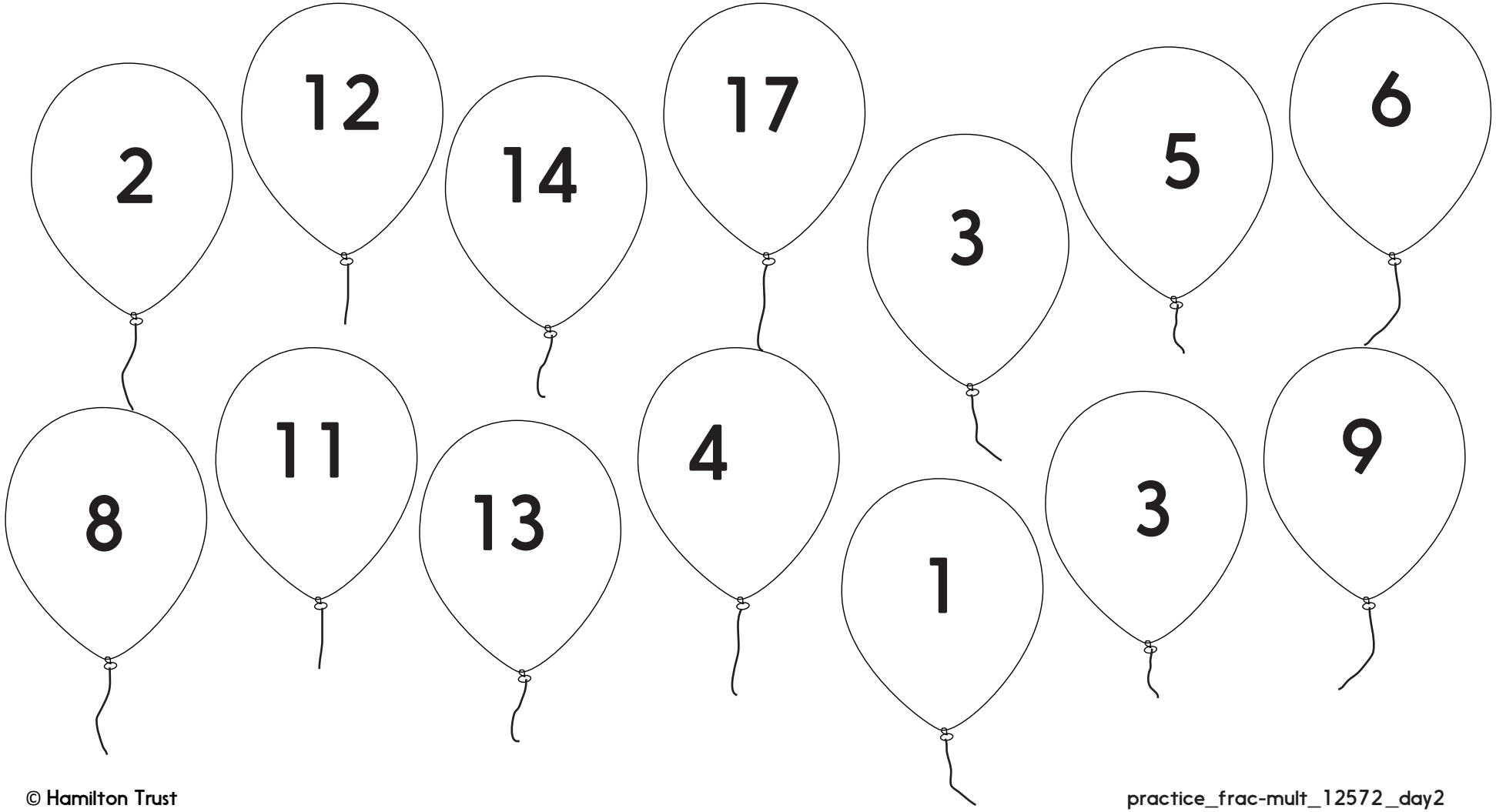
Make 2-digit odd and even numbers from the following digits:



Find the odd numbers

Sheet 1

Look at the numbers inside the balloons.
Colour in the balloons with odd numbers.



Sort the numbers

Sheet 2

Sort the numbers below into the correct columns.

Odd numbers	*Even numbers*

13

5

18

27

20

25

21

15

12

17

9

19

22

Spot the pattern

Sheet 3

Can you complete the pattern and describe it?

1) 5, 10, ☐, 20, 25, ☐, ☐, 40, 45, ☐

2) 6, 8, 10, ☐, 14, 16, ☐, ☐, ☐, 24

3) ☐, 15, ☐, 19, ☐, ☐, 25 , 27, ☐

4) 9, 19, ☐, 39, 49, ☐, ☐, ☐, ☐

5) ☐, ☐, 34, 44, ☐, 64, ☐, ☐

6) 3, 8, ☐, ☐, 23, ☐, ☐, 38, 43, ☐

Challenge

Try starting a pattern from a number > 50. Your pattern can count on or back.

Spot the pattern

Sheet 4

Can you complete the pattern and describe it?

1) 37, ☐, 57, 67, ☐, ☐, 97, ☐

2) 16, 21, ☐, 31, ☐, ☐, ☐, 51, ☐

3) 65, 60, ☐, ☐, ☐, 40, 35, ☐, ☐

4) 78, ☐, ☐, 48, 38, ☐, ☐, ☐

5) ☐, 57, 55, ☐, ☐, 49, ☐, ☐, 43

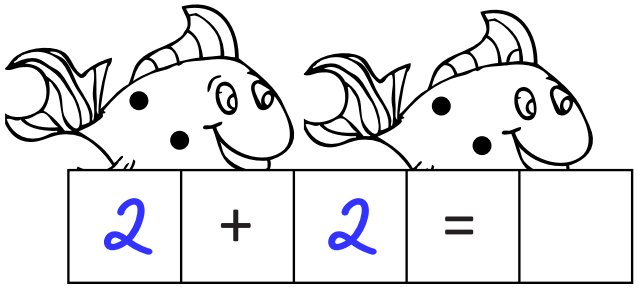
6) 47, 42, ☐, ☐, ☐, 22, 17, ☐, ☐

Challenge

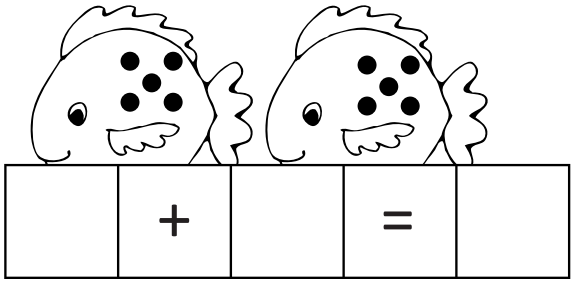
Try creating two more patterns with different-sized steps, maybe counting on or back in 3s, 4s or 7s! Can your partner work out your missing numbers?

Fish doubles

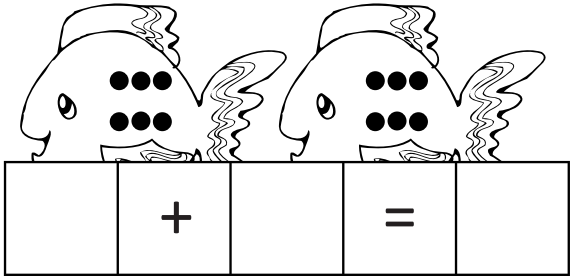
Sheet 1



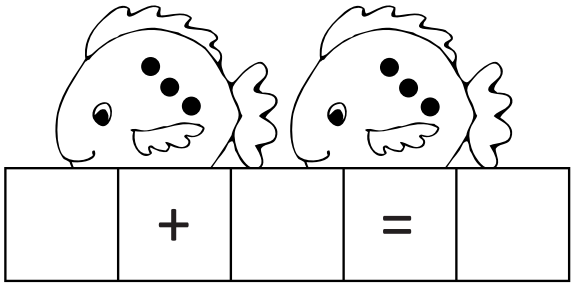
2	+	2	=	



	+		=	



	+		=	



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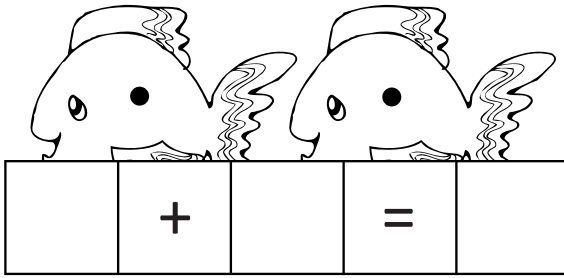
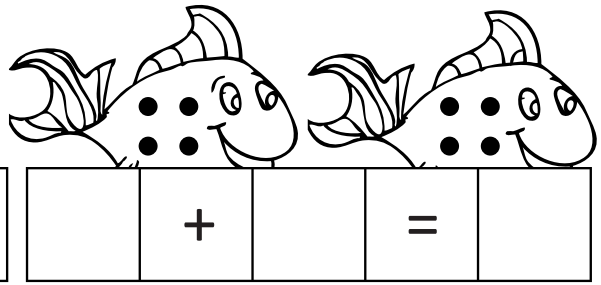


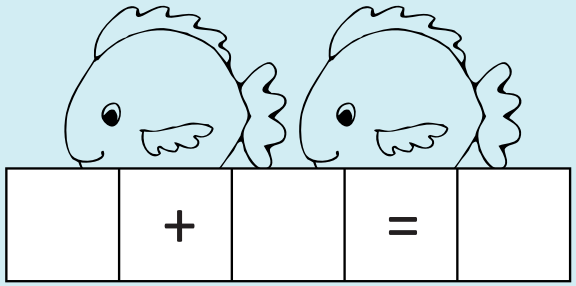
	+		=	



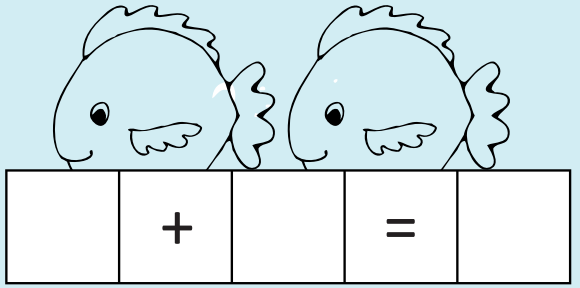
	+		=	

Challenge

Draw two more different fish doubles.
Write a number sentence for each.



	+		=	



	+		=	

Multiples of 3

Sheet 2

Shade in multiples of 3 on this grid:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Now shade them on this grid:

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	41	43	44	45

Why are the patterns different on the two grids?

Which of these numbers are multiples of 3?

12, 22, 32, 42, 18, 24, 31, 41, 48

Challenge

Poppy thinks that any number beginning with a 3 is a multiple of 3.
Do you agree with her?

Multiples of 3

Sheet 3

Identify which of these numbers are multiples of 3.

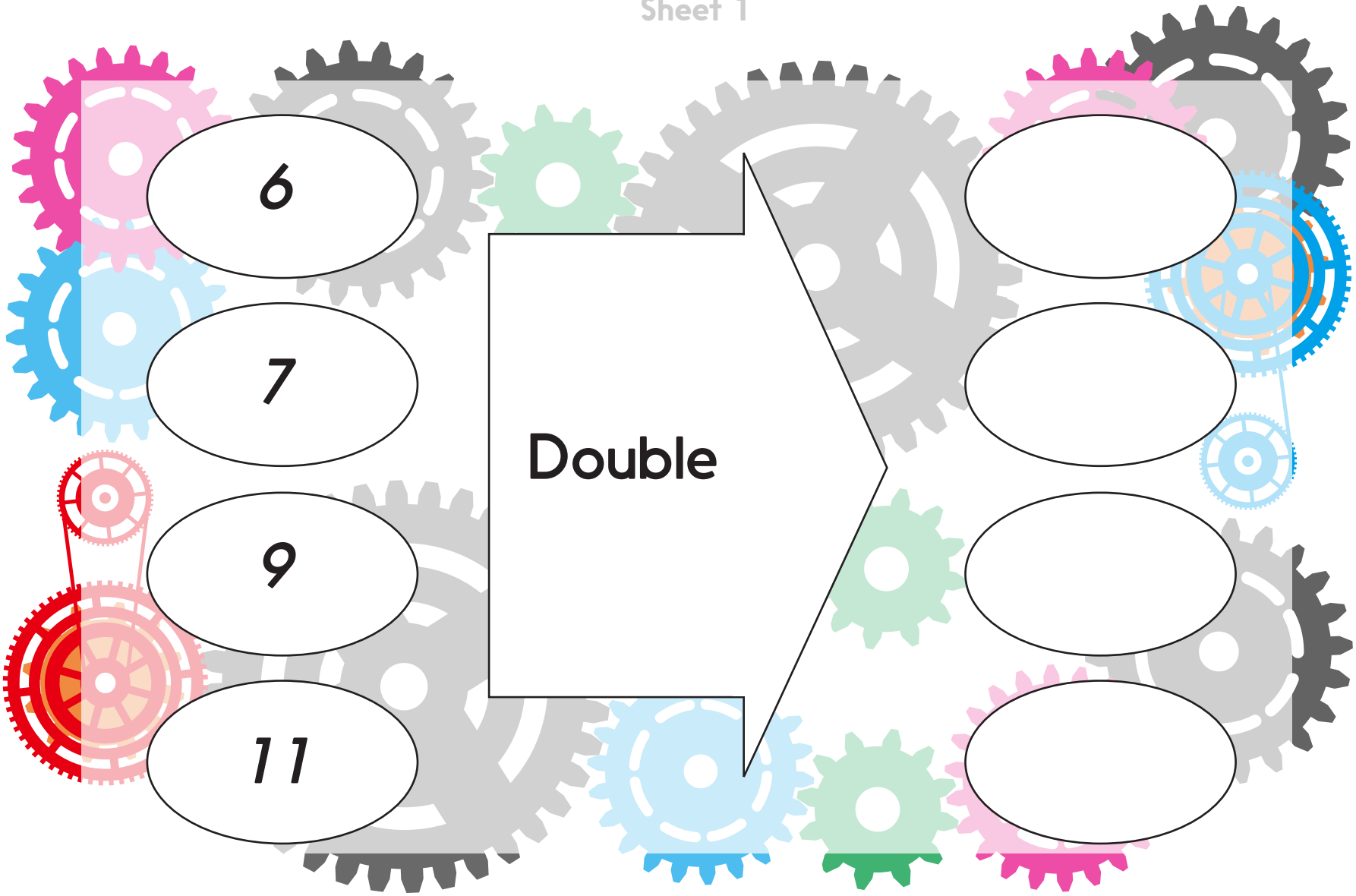
8	12	39	24
22	45	50	18
27	41	37	31

Challenge

Find 4 numbers larger than 50 that are multiples of 3.

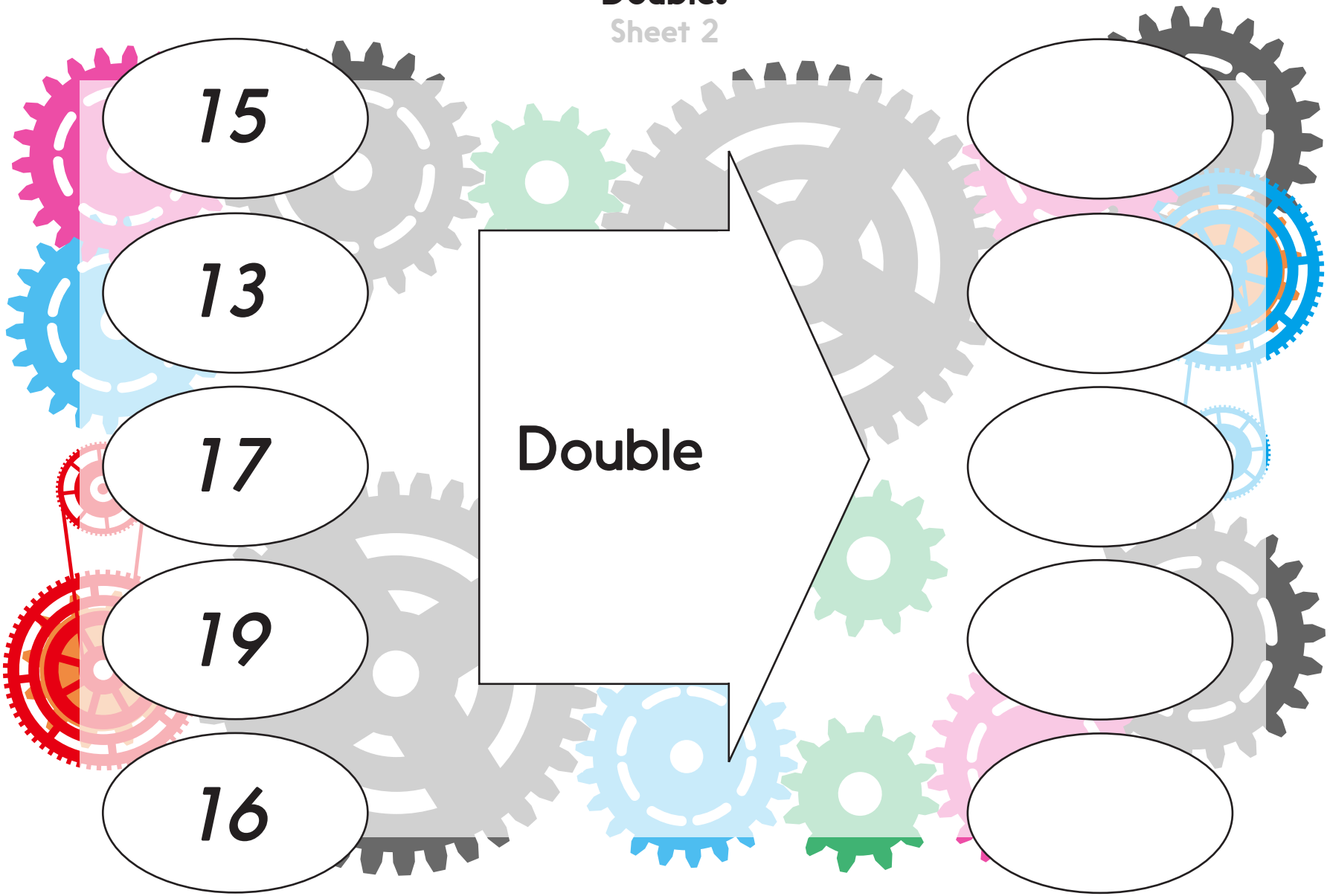
Doubles

Sheet 1



Doubles

Sheet 2



Multiply by 2, 3, 5 and 10

Sheet 3

Solve the following:

1. 3 × 5 =
2. 10 × 2 =
3. 7 × 10 =
4. 6 × 3 =
5. 8 × 5 =

6. 3 × 3 =
7. 6 × 2 =
8. 9 × 10 =
9. 12 × 2 =
10. 11 × 2 =

11. 12 × 5 =
12. 7 × 3 =
13. 6 × 10 =
14. 4 × 3 =
15. 7 × 5 =

16. ☐ = 2 x 8

17. ☐ = 10 x 8

18. ☐ x 2 = 4 x 5

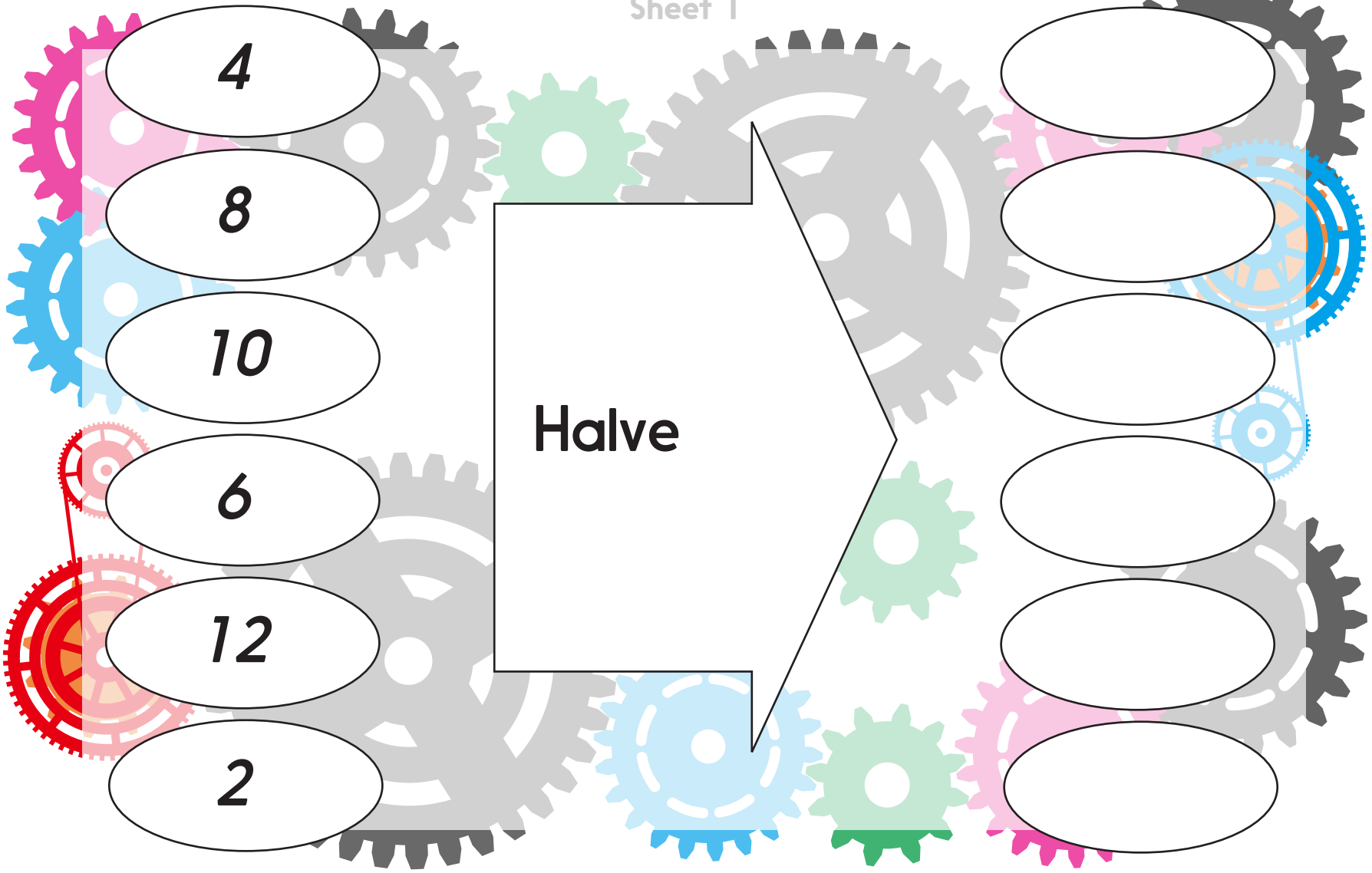
Challenge

A classroom has 6 tables. Each table has 5 children sitting at it. Write in the boxes to show how many children there are altogether.

☐ x ☐ = ☐ children

Halving

Sheet 1



Halving problems

Sheet 2

Can you help Mrs White solve her halving problems?

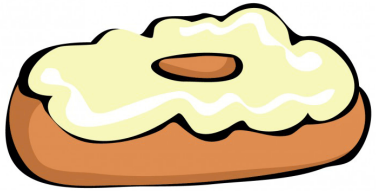
Mrs White has made batches of cakes but half of each batch has to go to one office and half to another. Can you help Mrs White to halve the amounts?

Half of 8 is ☐

12

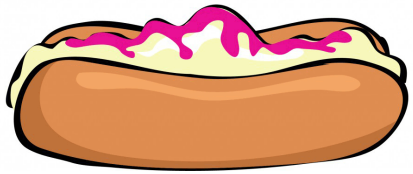
☐

16



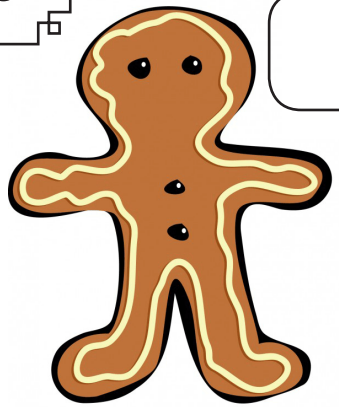
☐

10



☐

20



☐

6

☐

Sorting numbers

Sheet 3

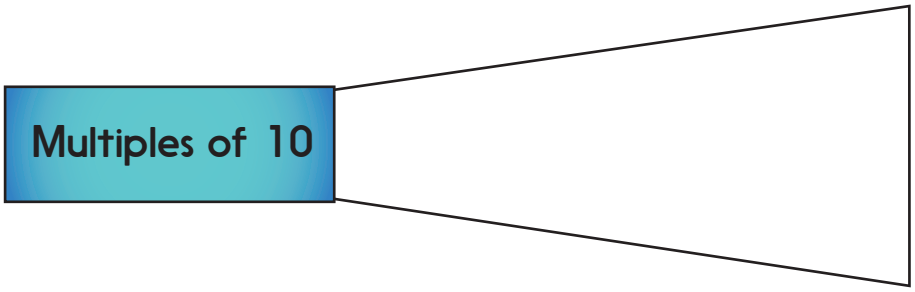
Can you sort the following numbers for each sorting machine?
Some numbers can go in more than one box.

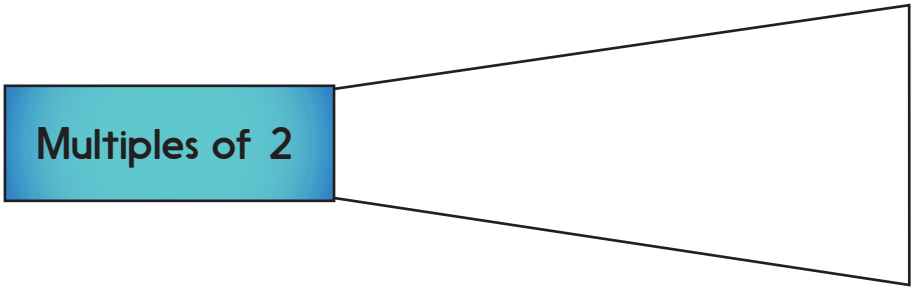
Set 1

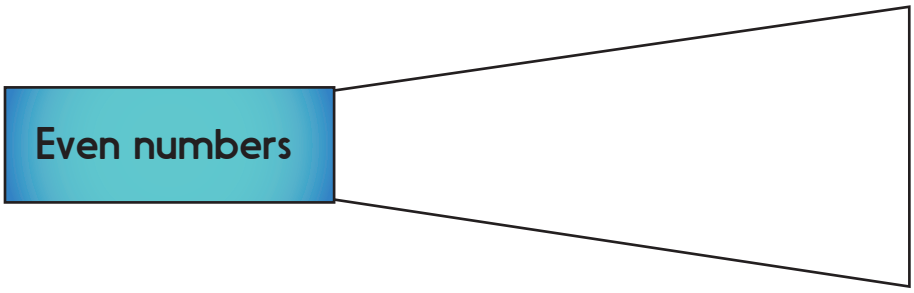
20, 18, 9, 10, 26, 11, 30, 12, 34, 23

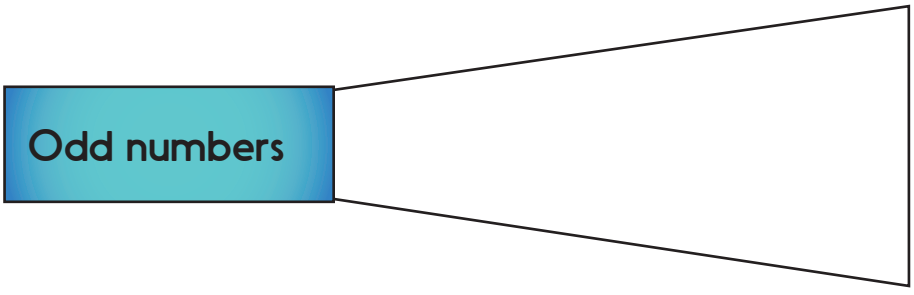
Set 2

20, 28, 49, 40, 36, 21, 50, 12, 44, 33







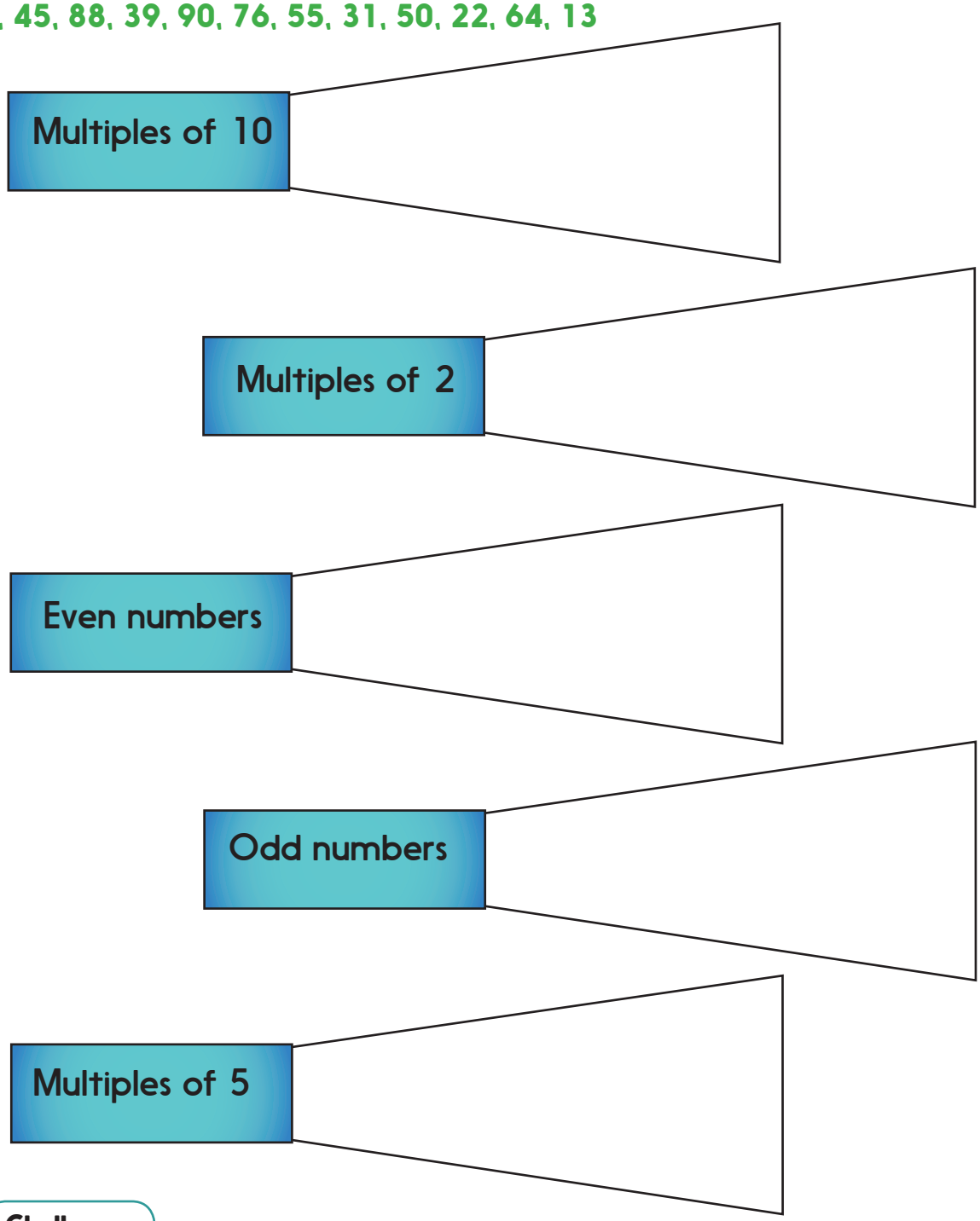


Sorting numbers

Sheet 4

Can you sort the following numbers for each sorting machine?
Some numbers can go in more than one box.

60, 45, 88, 39, 90, 76, 55, 31, 50, 22, 64, 13



Challenge

Think of three numbers that will fit into at least three of the sorting machines.
Can you think of any numbers that would fit into four of the sorting machines?

Fractions and Multiplication

Answers

Day 1 Y1 Counting in 2s Sheet 1

16 eyes
8 hands with gloves
6 blue shoes
8 green shoes

Day 1 Y1 Counting in 2s Sheet 2

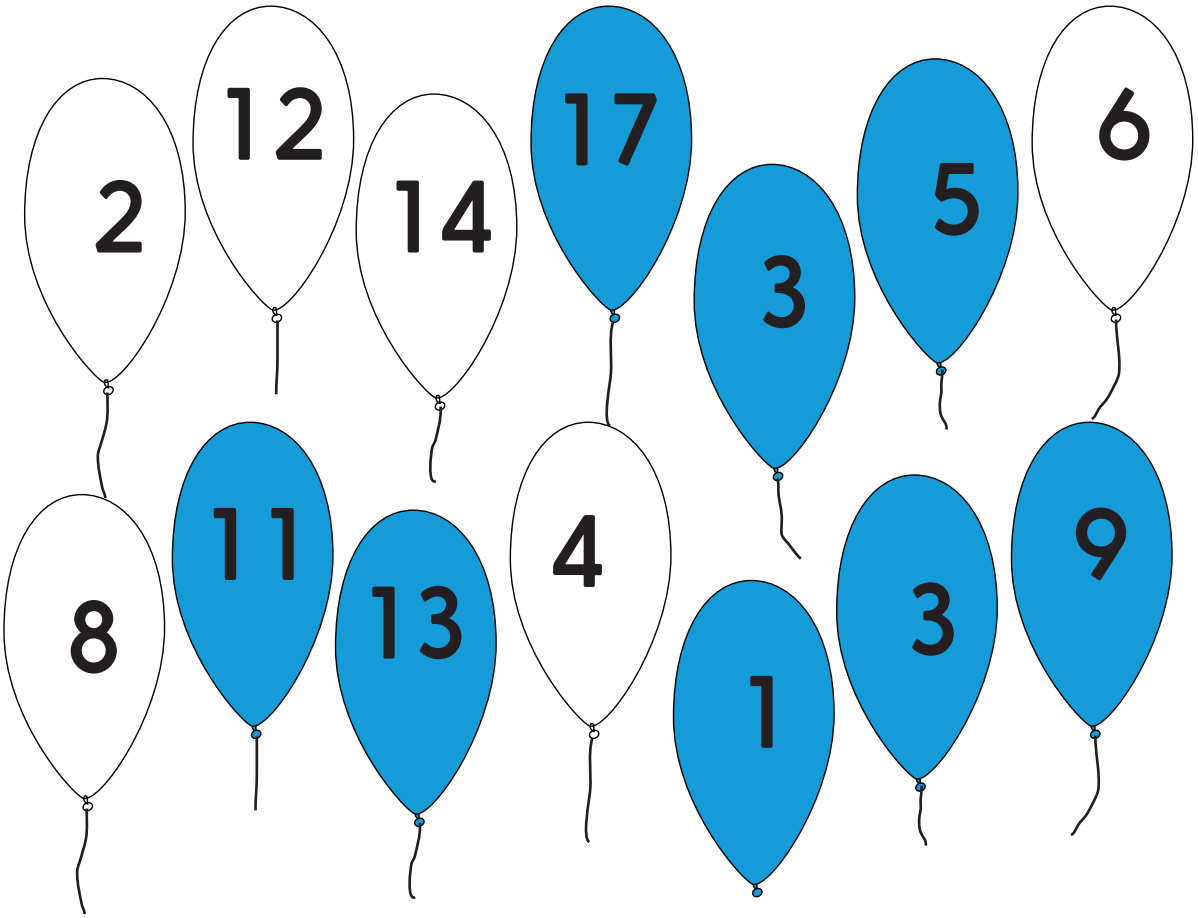
26 eyes
12 hands with gloves
10 blue shoes
14 green shoes

Day 1 Y2 Odds and evens Sheet 3

Odd 2- digit numbers could include: 23, 25, 27, 29, 35, 37, 39, 43, 45, 47, 49, 53, 57, 59, 67, 69, 63, 65, 73, 75, 79

Even 2-digit numbers could include: 24, 26, 20, 34, 36, 30, 46, 40, 42, 56, 50, 52, 54, 60, 62, 64, 70, 72, 74, 76, 90, 92, 94, 96

Day 2 Y1 Find the odd numbers Sheet 1



Fractions and Multiplication

Answers

Day 2 Y1 Sort the numbers Sheet 2

Odd numbers	*Even numbers*
13	18
5	12
27	22
17	20
9	
19	
15	
25	
21	

Day 2 Y2 Spot the pattern Sheet 3

1) 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 - Count on in 5s
2) 6, 8, 10, 12, 14, 16, 18, 20, 22, 24 - Count on in 2s
3) 13, 15, 17, 19, 21, 23, 25, 27, 29 - Count on in 2s
4) 9, 19, 29, 39, 49, 59, 69, 79, 89 - Count up in 10s
5) 14, 24, 34, 44, 54, 64, 74, 84 - Count on in 10s
6) 3, 8, 13, 18, 23, 28, 33, 38, 43, 48 - Count on in 5s

Challenge

Accept sequences that count on or back from numbers >50, e.g. 63, 68, 73, 78, 83, 88...

Day 2 Y2 Spot the pattern Sheet 4

1) 37, 47, 57, 67, 77, 87, 97, 107 - Count on in 10s
2) 16, 21, 26, 31, 36, 41, 46, 51, 56 - Count on in 5s
3) 65, 60, 55, 50, 45, 40, 35, 30, 25 - Count back in 5s
4) 78, 68, 58, 48, 38, 28, 18, 8 - Count back in 10s
5) 59, 57, 55, 53, 51, 49, 47, 45, 43 - Count back in 2s
6) 47, 42, 37, 32, 27, 22, 17, 12, 7 - Count back in 5s

Challenge

Accept sequences that count on or back in equally-sized steps. check that children have accurately described them, e.g. 6, 15, 24, 33, 42, 51, 60, 69 - Counting on in 9s from 6.

Day 3 Y1 Fish doubles Sheet 1

2 + 2 = 4 5 + 5 = 10 6 + 6 = 12
3 + 3 = 6 1 + 1 = 2 4 + 4 = 8

Challenge

Accept answers where children's drawings and number sentences match up. Sums could include 7 + 7 = 14, 8 + 8 = 16, and so on.

Fractions and Multiplication

Answers

Day 3 Y2 Multiples of 3 Sheet 2

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	31	33	34	34	36
37	38	39	40	41	42	43	44	45

Multiples of 3: 12, 42, 18, 24, 48

Challenge

Poppy thinks that any number beginning with a 3 is a multiple of 3.
Do you agree with her? A multiple of 3 is a number that can be divided into groups of 3 with none left over. Only some numbers beginning with 3 will do this (see grids above: 30, 33, 36, 39).

Day 3 Y2 Multiples of 3 Sheet 3

12, 18, 24, 27, 39 and 45 are multiples of 3.

Challenge

Find 4 numbers larger than 50 that are multiples of 3.
Answers could include: 51, 54, 57, 60, 63, etc.

Fractions and Multiplication

Answers

Day 4 Y1 Doubles Sheet 1

6	double	12
7	double	14
9	double	18
11	double	22

Day 4 Y1 Doubles Sheet 2

15	double	30
13	double	26
17	double	34
19	double	38
16	double	32

Day 4 Y2 Multiply by 2, 3, 5 and 10 Sheet 3

1.	3 × 5 = 15	6.	3 × 3 = 9	11.	12 × 5 = 60
2.	10 × 2 = 20	7.	6 × 2 = 12	12.	7 × 3 = 21
3.	7 × 10 = 70	8.	9 × 10 = 90	13.	6 × 10 = 60
4.	6 × 3 = 18	9.	12 × 2 = 24	14.	4 × 3 = 12
5.	8 × 5 = 40	10.	11 × 2 = 22	15.	7 × 5 = 35

16. 16 = 2 x 8

17. 80 = 10 x 8

18. 10 x 2 = 4 x 5

Challenge

6 x 5 = 30 children.

Day 5 Y1 Halving Sheet 1

4	halve	2
8	halve	4
10	halve	5
6	halve	3
12	halve	6
2	halve	1

Day 5 Y1 Halving problems Sheet 2

Half of Mrs White's amounts:
Half of 8 is 4
Half of 12 is 6
Half of 16 is 8
Half of 10 is 5
Half of 20 is 10
Half of 6 is 3

Fractions and Multiplication

Answers

Day 5 Y2 Sorting numbers Sheet 3

Set 1
Multiples of 10: 20, 30
Multiples of 2: 20, 18, 10, 26, 30, 12, 34
Even numbers: 20, 18, 10, 26, 30, 12, 34
Odd numbers: 9, 11, 23

Set 2
Multiples of 10: 20, 40, 50
Multiples of 2: 20, 28, 40, 36, 50, 12, 44
Even numbers: 20, 28, 40, 36, 50, 12, 44
Odd numbers: 49, 21, 33

Day 5 Y2 Sorting numbers Sheet 4

Multiples of 10: 60, 50 90
Multiples of 2: 60, 88, 90, 76, 50, 22, 64
Even numbers: 60, 88, 90, 76, 50, 22, 64
Odd numbers: 45, 39, 55, 31, 13
Multiples of 5: 60, 90, 45, 55, 50

Challenge

Think of three numbers that will fit into at least three of the sorting machines. e.g. Into Multiples of 10, Multiples of 2 and even numbers, any 2-digit number ending in a zero, e.g. 50, 70, 80, etc.

Can you think of any numbers that would fit into four of the sorting machines? e.g. Into Multiples of 10, Multiples of 2, Multiples of 5 and even numbers, 10, 20, 30, etc.