MATHEMATICS

Year 3/Primary 4

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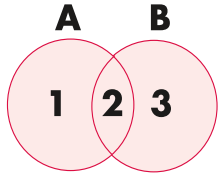
PARENT PACK

MONDAY

1. Which number is in region A and B?



2. How many years of primary school do you have left?
3. Tick the heaviest weight.

$^1/_2$ kg	1 kg	$^1/_4$ kg

4. 4 5
   + 2 3

5. 2 + 20 =
6. 10 + 8 =

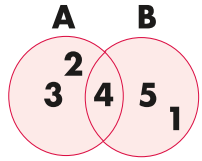
Favourite Fruit Chart

apple	
orange	
banana	
cherry	
kiwi	

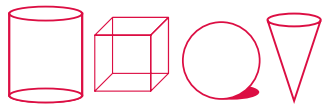
7. Which two fruits were the most popular?
8. Which fruit was the least popular?
9. How many people liked cherries?
10. How many types of fruit were chosen altogether?

TUESDAY

1. Which numbers are in region A?



2. Tick which shape is an orange.

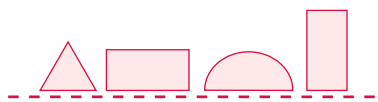


3. Tick the lightest weight.

$^1/_2$ kg	1 kg	$^1/_4$ kg

4. 1 6
   + 4 2

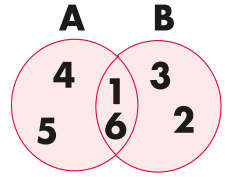
5. 11 – 9 =
6. 20 – 8 =
7. 123p = £
8. Draw a mirror image.



9. What fraction of a pizza would you have eaten if you ate 1 piece of a 4 piece pizza?
10. 7 + 8 =

WEDNESDAY

1. Is $^1/_4$ kg more than or less than $^1/_2$ kg?
2. 3 7
   + 5 2
3.



   Which numbers are in both regions?

4. 40 – 10 =
5. 12 – 9 =
6. 149p = £
7. 6 2
   + 3 4
8. 50 + 7 =
9. Share 4 

coins with 2 people.

   each

10. 4 + 70 + 5 =

THURSDAY

1. Sarah has 10 sweets, Jane has 8 and Ruth has 4. How many sweets altogether?

2. Write the weights from lightest to heaviest.
   $^1/_2$ kg, 1 kg, $^1/_4$ kg.
   ____, ____, ____

3.
$$\begin{array}{r} 2\ 6 \\ +\ 5\ 2 \\ \hline \end{array}$$

4. 8 + 4 + 3 = ____

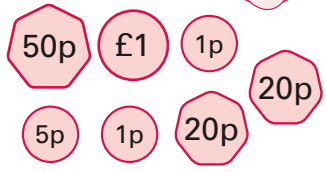
5. 16 – 9 = ____

6. Is 63 an odd number?

7. Is 163 an odd number?

8. 179p = £____

9. Double the number of teeth on this monster.

10. 

= £____

FRIDAY

1. David has 6 fish, Kate has 2 dogs and Ann has 3 rabbits. How many pets altogether?

2.
$$\begin{array}{r} 8\ 4 \\ +\ 1\ 5 \\ \hline \end{array}$$

3. Is 75 an even number?

4. 15 – 6 = ____

5. Is 124 an even number?

6. 4, 8, ____, 16, 20

7. 185p = £____

8. 3, 6, 9, 12, 15, ____, 21

9. Write these weights from heaviest to lightest.
   $^1/_2$ kg, 1 kg, $^1/_4$ kg.
   ____, ____, ____

10. 80 – 20 = ____

ASSESSMENT

How did you do?

On Monday I scored ____ *out of 10*

On Tuesday I scored ____ *out of 10*

On Wednesday I scored ____ *out of 10*

On Thursday I scored ____ *out of 10*

On Friday I scored ____ *out of 10*

My teacher says

MONDAY

1. There are 8 red crayons, 3 blue crayons and 6 yellow crayons. How many crayons altogether?

2. 
Measure this line with your ruler.

cm

3. 3 + 6 + 4 =

4.
$$\begin{array}{r} 1\ 6 \\ +\ 5\ 3 \\ \hline \end{array}$$

5. 14 – 8 =

6. How many 10p coins in 50p?

7. How many 10p coins in £1.00?

8. What change should you have from £1.00 if the ice-cream cost 70p?

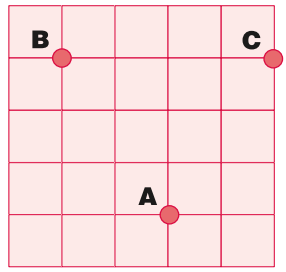
p

9. 120p = £

10. Tick which will be biggest in size.
   - ☐ *1 kg of sand*
   - ☐ *1 kg of polystyrene balls*

TUESDAY

1. Travelling along the red lines, is B closer to ☐ *A or* ☐ *C*?



2. Tick which will be biggest in size.
   - ☐ *$\frac{1}{2}$ kg feathers*
   - ☐ *$\frac{1}{2}$ kg wooden blocks*

3. How many days in a week?

4. 4 + 7 + 5 =

5.
$$\begin{array}{r} 6\ 2 \\ +\ 1\ 7 \\ \hline \end{array}$$

6. 14 – 6 =

7. 19 – 10 =

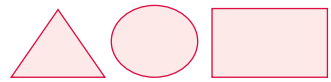
8. Write one hundred and twenty-nine as a numeral.

9. Halve 16.

10. 1, 3, 5, 7, 9 are odd. Write one even number.

WEDNESDAY

1. Tick which shape can be found on the faces of a cuboid.



2. Tick which will be biggest in size.
   - ☐ *$\frac{1}{4}$ kg cotton wool*
   - ☐ *$\frac{1}{4}$ kg sugar*

3. Which is heavier, your chair or a house brick?

4. 6 + 3 + 4 =

5.
$$\begin{array}{r} 7\ 1 \\ +\ 2\ 4 \\ \hline \end{array}$$

6. 15 – 9 =

7. Place these in order from lowest to highest.
   18, 12, 41, 38

, ,

,

8. 145p = £

9. Sum of 4 and 4 =

10. 60 + 7 =

THURSDAY

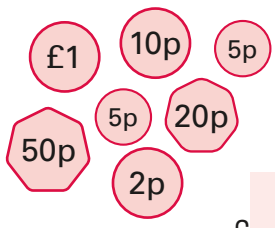
1. There are 5 strawberry sweets, 6 lemon and 4 lime. How many sweets altogether?

2. Who is usually lighter? Tick.
   - ☐ *a 10-year-old boy*
   - ☐ *a 6-year-old boy*

3. 4 + 7 + 5 =

4.
$$\begin{array}{r} 4\ 4 \\ +\ 5\ 2 \\ \hline \end{array}$$

5. 13 – 8 =

6. 

= £

7. Tick which will be smallest in size.
   - ☐ *1 kg house bricks*
   - ☐ *1 kg wool*

8. Place these in order from lowest to highest.
   180, 100, 25, 85
   , ,

9. Halve 12.

10. 98p = £

FRIDAY

1. Draw to show one turn clockwise.

2. Tick which will be smaller in size.
   - ☐ $^1/_2$ *kg leaves*
   - ☐ $^1/_2$ *kg earth*

3. Would your school desk be heavier than your teacher's desk?

4. 6 + 3 + 5 =

5.
$$\begin{array}{r} 6\ 3 \\ +\ 1\ 6 \\ \hline \end{array}$$

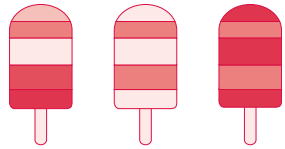
6. 13 – 6 =

7. 10 + 30 + 9 =

8. 3, 13, 23, , 43

9. 50p = £

10. If you ate three ice-lollies each hour, how many ice-lollies in 2 hours?

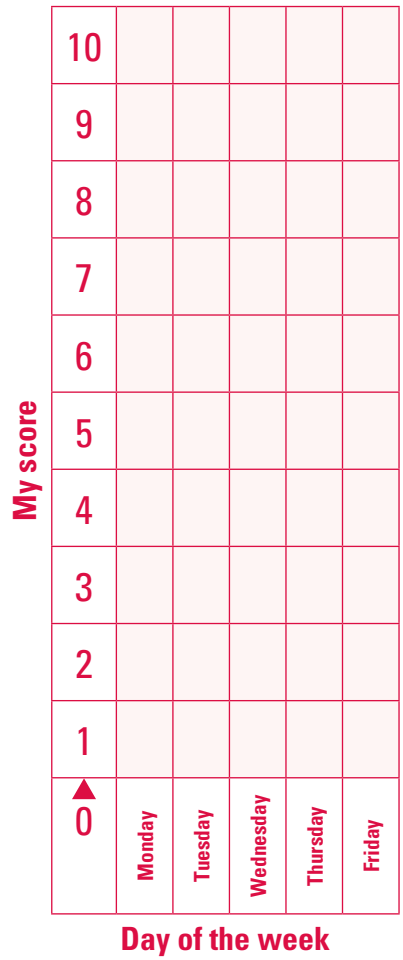


ASSESSMENT

How did you do?

Monday		*out of 10*
Tuesday		*out of 10*
Wednesday		*out of 10*
Thursday		*out of 10*
Friday		*out of 10*

Plot your scores on the graph.



My teacher says

NEW WAVE MENTAL MATHS Year 3/Primary 4 Book – Answers

Thursday
1. ☒
2. 15
3. 15
4. £1.24
5. 4
6. £1.90
7. Teacher check
8. 200, 195
9. 79
10. 100, 175, 189, 215

Friday
1. Y
2. 16
3. £1.63
4. 7
5. 92
6. 10
7. 95
8. 90
9. 3
10. 87

WEEK 31 pages 62 – 63

Monday
1. 21
2. 8
3. more than
4. 30 September
5. Friday
6. 4
7. 2
8. 2
9. 48
10. £1.49

Tuesday
1. more than
2. A
3. 11
4. 90
5. 16
6. 100
7. 79
8. 7
9. warm
10. 4

Wednesday
1. cone
2. A
3. 12
4. 70
5. 14
6. 98
7. no
8. £1.75
9. 18
10. less than

Thursday
1. both
2. more than
3. 3
4. 14
5. 90
6. £1.27
7. no
8. 179
9. 43
10. 90p

Friday
1. 3, 5, 5
2. December
3. 13
4. 90
5. less than
6. 7
7. 4
8. 90
9. 97
10. £1.74

WEEK 32 pages 64 – 65

Monday
1. 2
2. Teacher check
3. 1 kg
4. 68
5. 22
6. 18
7. apple, banana
8. kiwi
9. 4
10. 5

Tuesday
1. 2, 3, 4
2. sphere
3. $^1/_4$ kg
4. 58
5. 2
6. 12
7. £1.23
8. Teacher check
9. $^1/_4$
10. 15

Wednesday
1. less than
2. 89
3. 1, 6
4. 30
5. 3
6. £1.49
7. 96
8. 57
9. 40p
10. 79

Thursday
1. 22
2. $^1/_4$ kg, $^1/_2$ kg, 1 kg
3. 78
4. 15
5. 7
6. yes
7. yes
8. £1.79
9. 16
10. £1.97

Friday
1. 11
2. 99
3. no
4. 9
5. yes
6. 12
7. £1.85
8. 18
9. 1 kg, $^1/_2$ kg, $^1/_4$ kg
10. 60

WEEK 33 pages 66 – 67

Monday
1. 17
2. 4
3. 13
4. 69
5. 6
6. 5
7. 10
8. 30p
9. £1.20
10. polystyrene balls

Tuesday
1. C
2. feathers
3. 7
4. 16
5. 79
6. 8
7. 9
8. 129
9. 8
10. Teacher check

Wednesday
1. rectangle
2. cotton wool
3. Teacher check
4. 13
5. 95
6. 6
7. 12, 18, 38, 41
8. £1.45
9. 8
10. 67

Thursday
1. 15
2. 6-year-old
3. 16
4. 96
5. 5
6. £1.92
7. bricks
8. 25, 85, 100, 180
9. 6
10. £0.98

Friday
1. ◹
2. earth
3. Teacher check
4. 14
5. 79
6. 7
7. 49
8. 33
9. £0.50
10. 6

WEEK 34 pages 68 – 69

Monday
1. circle
2. 20
3. 55
4. 6
5. 125p
6. 104
7. 5
8. A
9. 25
10. more than

Tuesday
1. 30
2. 75
3. 16
4. 189p
5. 174
6. 8
7. Teacher check
8. £1.88
9. ◹
10. more than

Wednesday
1. B
2. less than
3. 40
4. 95
5. 9
6. 155p
7. 6
8. 9
9. 5
10. 189

Thursday
1. square
2. more than
3. 50
4. 85
5. 12
6. 16
7. 9
8. 123p
9. 8
10. 50

Friday
1. 1
2. less than
3. 70
4. 95
5. 9
6. 199p
7. 11
8. 15
9. £4.00
10. 5

WEEK 35 pages 70 – 71

Monday
1. 87p
2. 8
3. 130p
4. 90
5. 34
6. less than
7. 17, 37, 45, 101
8. 18
9. 5
10. 124

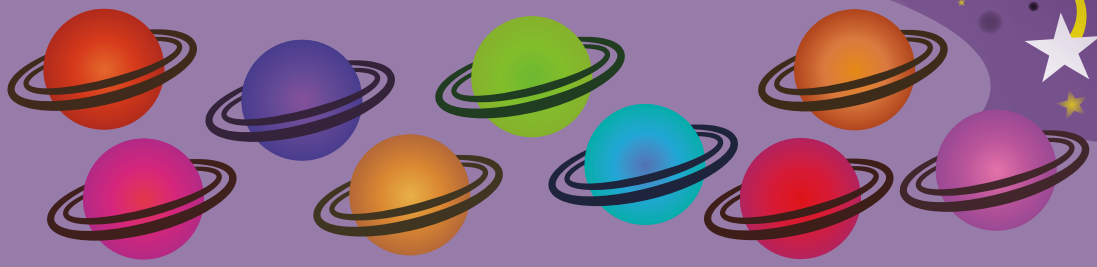
Tuesday
1. cylinder
2. 8
3. 195p
4. 90
5. 1 kg
6. 85, 121, 132, 133
7. 12
8. 50p
9. 9
10. 20

Wednesday
1. 9
2. 121
3. 90
4. $^1/_4$ kg
5. 
6. ◺
7. 1
8. 140p
9. 12
10. 90p

Skip counting in 2s and 3s

Count in 2s

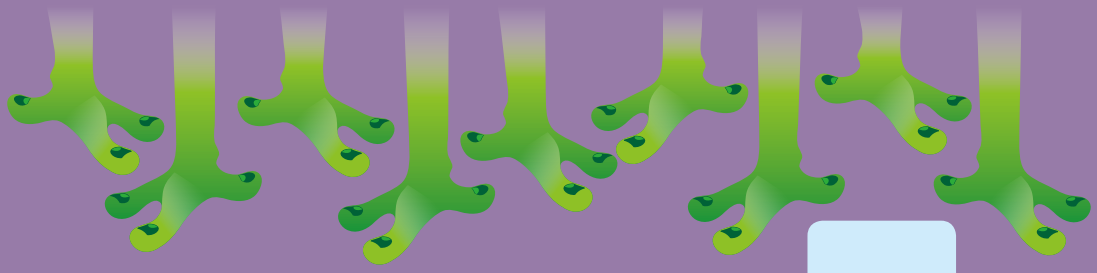
1. How many rings are there altogether?



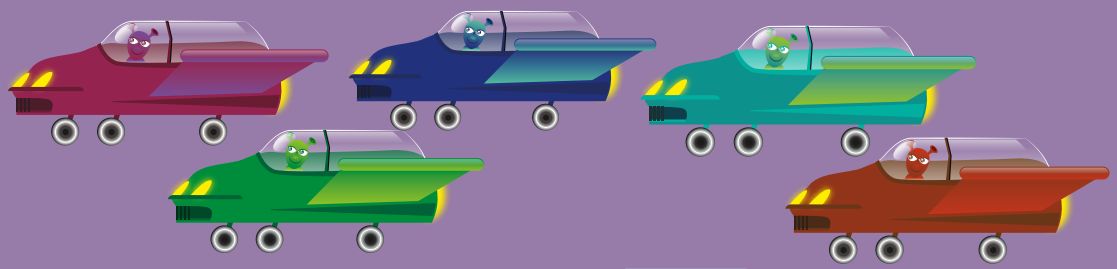
2. How many alien eyes can you count below?
Start at 5 and count on in 2s.

Count in 3s

3. How many toes are there altogether?



4. How many wheels on the space cars below?



5. Start at 2 and count by 3.
How many astronauts altogether?

Content description: Investigate number sequences (ACMNA026)

Skip counting in 5s

Counting in 5s at the beauty salon.

1. Start at 4 and count on in 5s.
How many fingers are shown altogether?

2. How many toenails are painted?
Count in 5s from 2.

3. How many hair spikes are shown below?
Count in 5s from 3.

Content description: Investigate number sequences (ACMNA026)

Count on in 10s

1. Use a 100 chart to help you. Place some counters on the chart to show the counting in 10s pattern.

(a)	(b)	(c)	(d) Make your own
5	18	46	
15			
25			
35			
	58		
55		96	
75	88		

Content description: Investigate number sequences (ACMNA026)

Food fractions

1. Make up the foods according to the directions.

(a) ½ plain pizza and ½ mushroom pizza

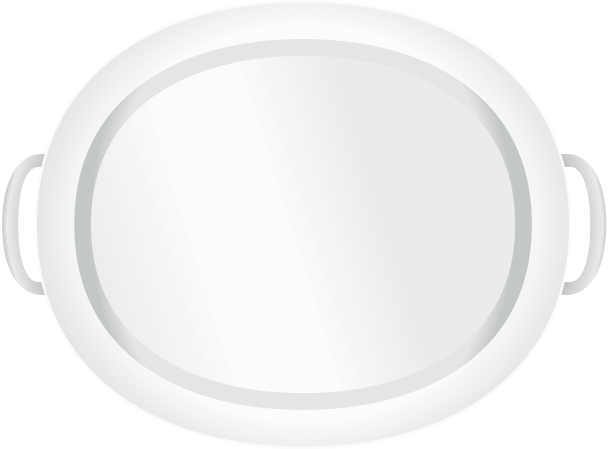
(b) ½ cake with sprinkles and ½ with strawberries

(c) ½ bowl of chocolate ice-cream and ½ vanilla ice-cream

(d) ¼ of the toast jam, ¼ honey, ¼ vegemite™, ¼ nutella™

(e) ¼ of the fruit platter is made up of oranges, ¼ apple, ¼ watermelon, ¼ blueberries

(f) ½ of the plate is cheese and ½ plate is biscuits

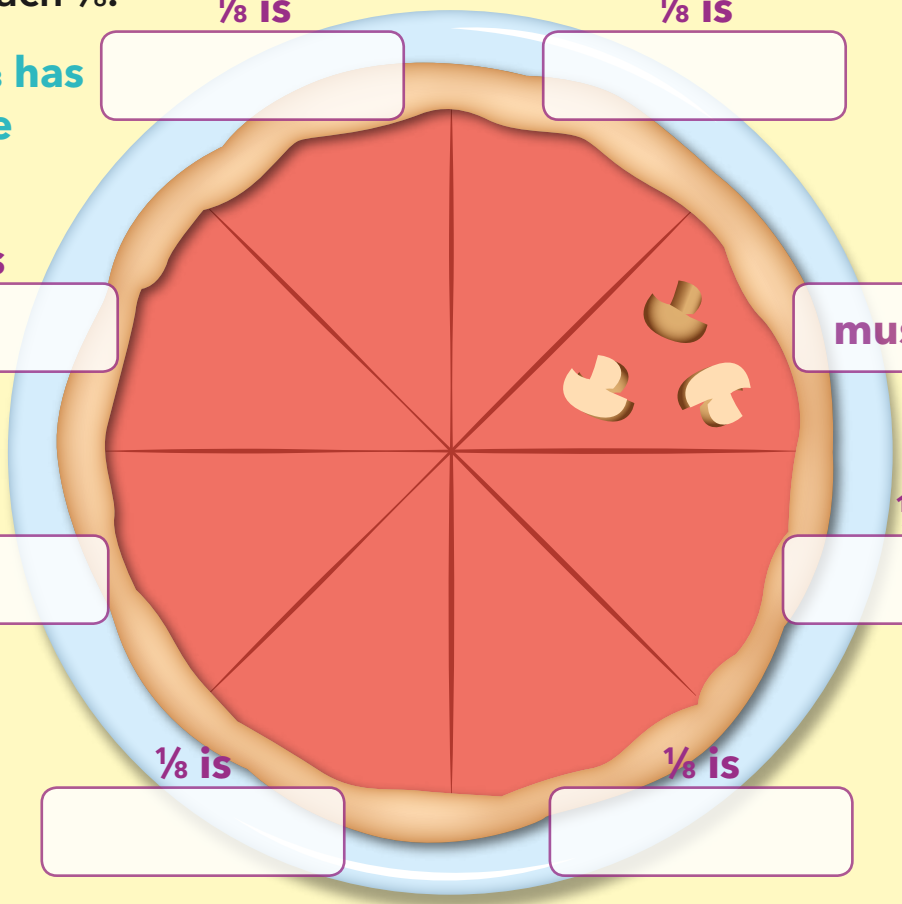


AC Content description: Recognise and interpret common uses of halves, quarters and eighths of shapes and collections (ACMNA033)

Crazy pizza

1. Can you make each eighth of this pizza different?
Label each ⅛.

The first ⅛ has been done for you.

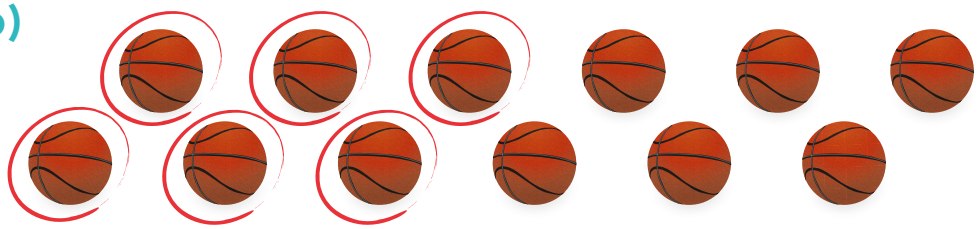
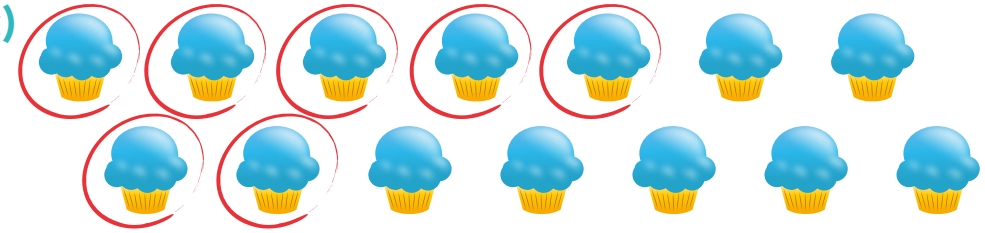
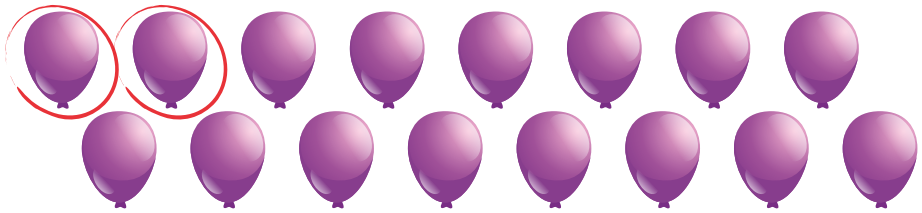
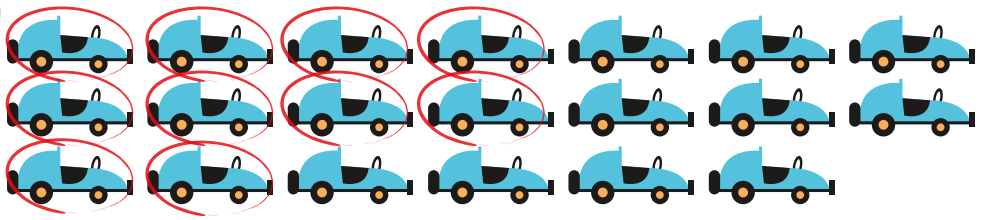


2. Mark this plate into 8 equal sections.
Make each ⅛ a different type of food.

Content description: Recognise and interpret common uses of halves, quarters and eighths of shapes and collections (ACMNA033)

What fraction is this?

What fraction of the collection is circled? Choose from ½ (half), ¼ (quarter) or ⅛ (eighth).

1.	Collections	What fraction is circled?
(a)		
(b)		
(c)		
(d)		
(e)		
(f)		
(g)		

Content description: Recognise and interpret common uses of halves, quarters and eighths of shapes and collections (ACMNA033)

Pattern detective

1. What is the pattern?

(a) 2, 3, 4, 5, 6

Pattern rule:

(b) 3, 7, 11, 15, 19

Pattern rule:

(c) 24, 22, 20, 18, 16

Pattern rule:

(d) 47, 49, 51, 53, 59

Pattern rule:

(e) 19, 16, 13, 10, 7

Pattern rule:

(f) 82, 77, 72, 67, 62

Pattern rule:

2. Make your own pattern below.

Pattern rule:

Content description: Describe patterns with numbers and identify missing elements (ACMNA035)

Patterns on a number chart

1. Make the following patterns on the 120 chart below. You cannot use a number on the number chart more than once! All patterns must contain at least 5 numbers.

(a) A **blue** skip counting in 3s pattern.

(b) A **red** skip counting in 5s pattern.

(c) A **yellow** skip counting in 10s pattern.

(d) A **green** skip counting in 4s pattern.

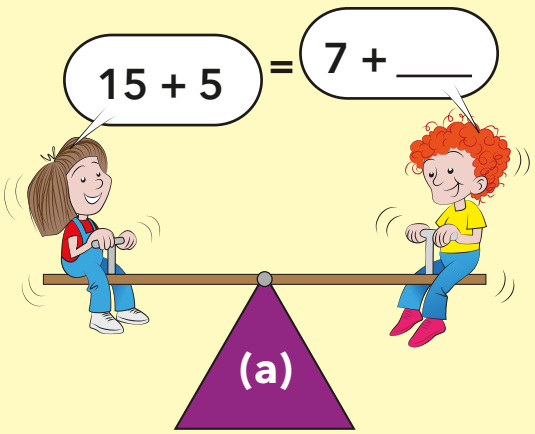
(e) A counting pattern of your own creation.

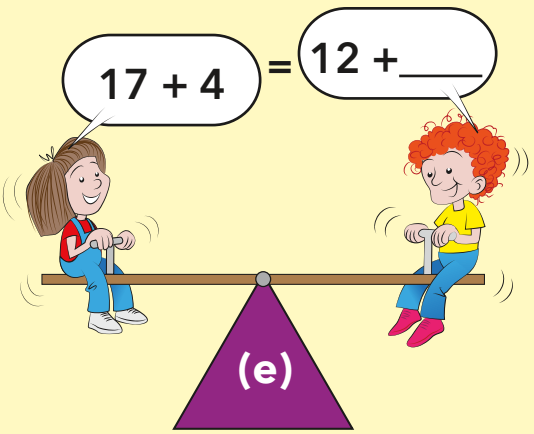
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

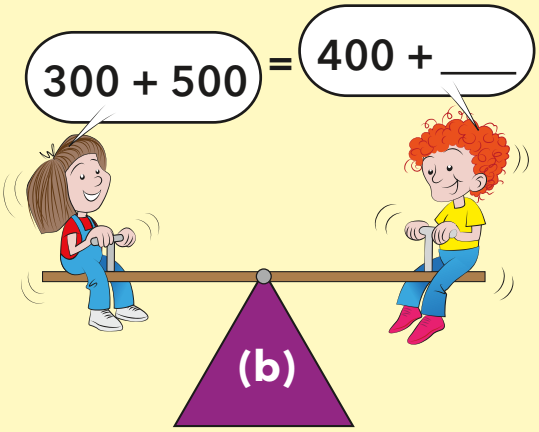
Content description: Describe patterns with numbers and identify missing elements (ACMNA035)

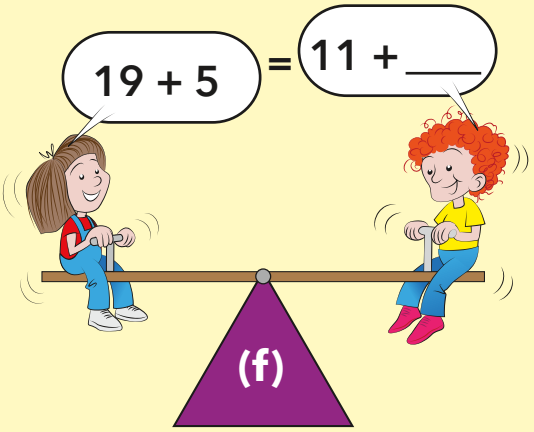
Seesaw balance

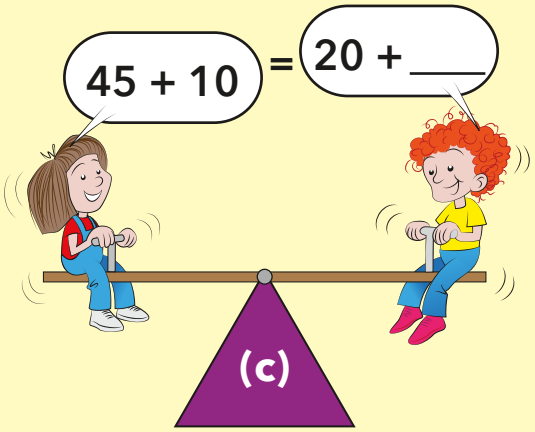
1. Make sure the two sides of the seesaw are balanced.
e.g. 2, 6 and 8, 0

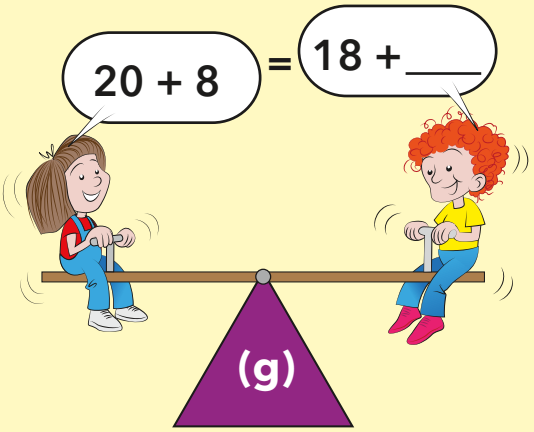


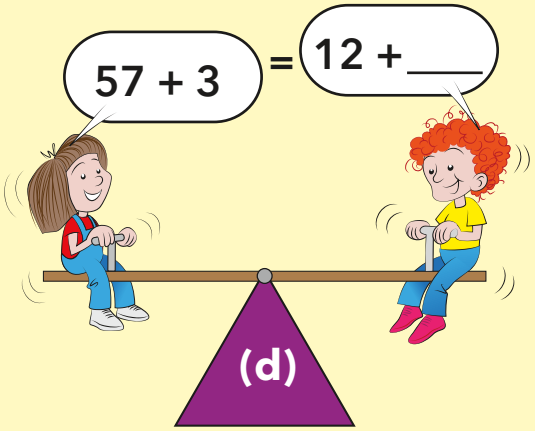


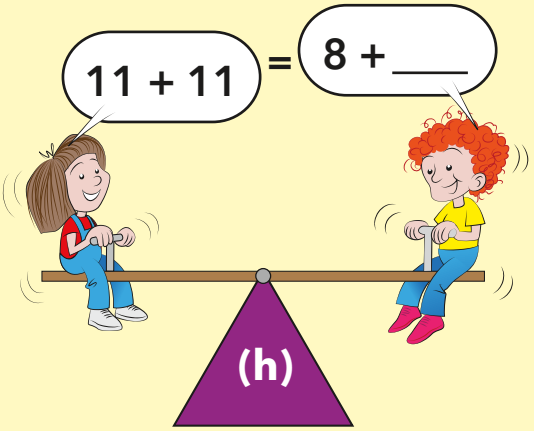








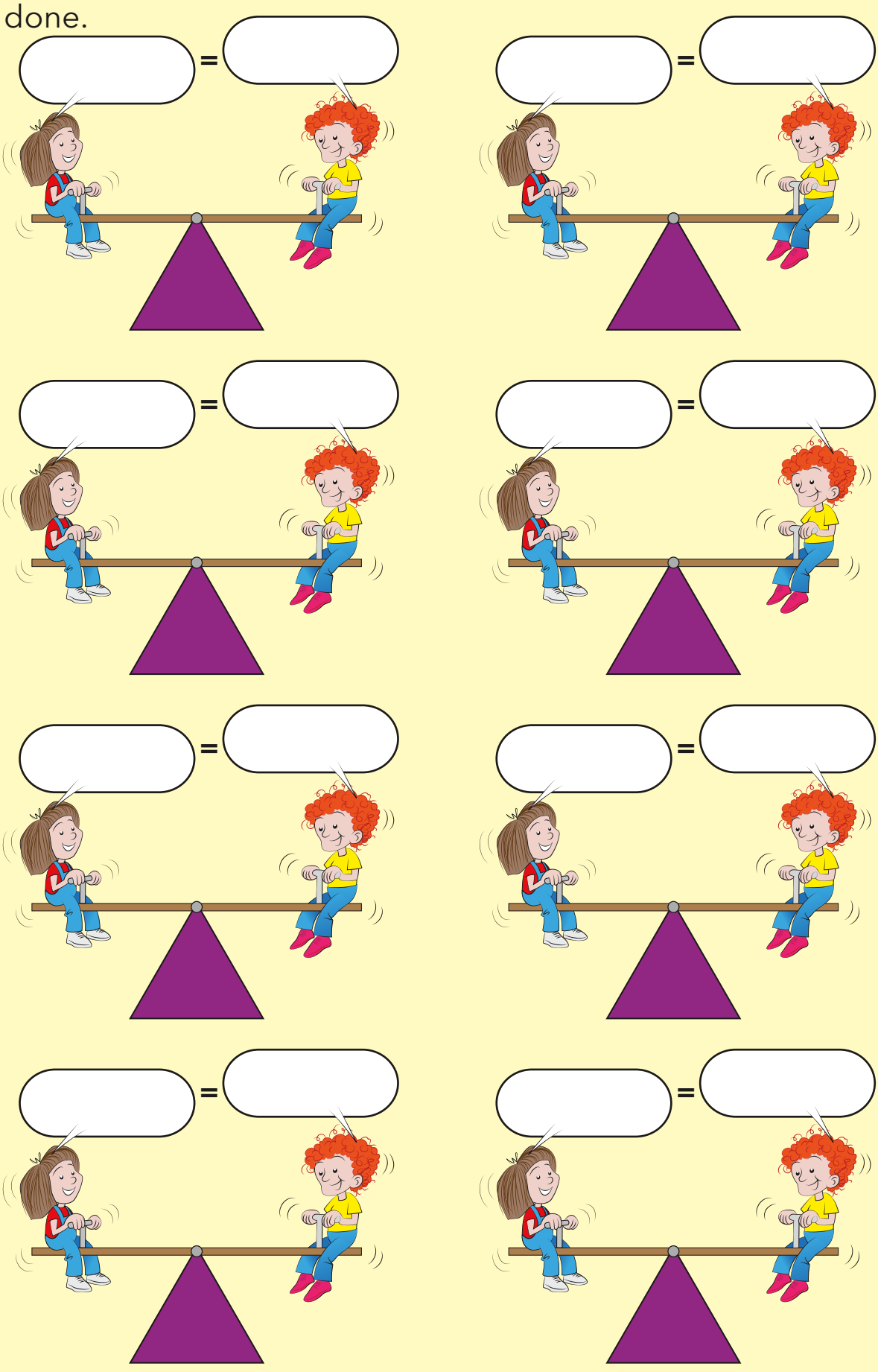




Content description: Describe patterns with numbers and identify missing elements (ACMNA035)

Seesaws 2

Make up your own balanced seesaws. Make sure both sides have the same value. Check your workings with a calculator when you are done.



Content description: Describe patterns with numbers and identify missing elements (ACMNA035)

ADDITION PROBLEMS

NUMBER

TEACHER INFORMATION

Objectives

Solves vertical addition operations with trading.
Solves addition word problems.

Concepts required

Place value
Addition of two-digit numbers with trading
Problem solving

Answers

1. (a) 31 (b) 41 (c) 70
   (d) 76 (e) 81

2. (a) 9 + 7 = 16 toys (b) 7 + 11 = 18 pupils
   (c) 12 + 9 = 21 flowers

3. (a) 49 pupils (b) 54 goals
   (c) 84 sandwiches (d) 83 runs

ADDITION PROBLEMS

NUMBER

PUPIL NAME .....

1. (a) 17 + 14 = ____ (b) 26 + 15 = ____ (c) 45 + 25 = ____ (d) 39 + 37 = ____ (e) 34 + 47 = ____

2. Write the number sentence and solve the addition problem.

(a) Kate had nine toys and Eve had seven. How many toys altogether?

☐ + ☐ = ☐ toys

(b) There were seven pupils in one group and 11 in another. How many pupils were there altogether?

☐ + ☐ = ☐ pupils

(c) There were 12 flowers on one plant and nine flowers on another. How many flowers were there altogether?

☐ + ☐ = ☐ flowers

3. Set the stories out as vertical addition sums and solve them.

(a) There are 24 pupils in one class and 25 in another. How many pupils are there altogether?

☐ ☐ pupils

(b) One team scored 28 goals and the other scored 26 goals. How many goals were scored altogether?

☐ ☐ goals

(c) Forty-five pupils ordered salad sandwiches and 39 pupils ordered chicken sandwiches. How many sandwiches were ordered altogether?

☐ ☐ sandwiches

(d) Jane scored 56 runs and Nadeem scored 27 runs. What was the total amount of runs scored?

☐ ☐ runs

MONEY – COINS

NUMBER

TEACHER INFORMATION

Objectives

Identifies coins.

Identifies equivalent groups of coins.

Concepts required

Knowledge of coins

Adding the value of sets of coins

Identifying equivalent values

Ordering amounts

Answers

1. (a) 20p
   (b) 30p
   (c) 65p
   (d) £1.00
   (e) £2.00
   (f) £3.85
2. Teacher check
3. (a) 5p, 10p, 20p, 50p
   (b) 10p, 20p, 50p, £1, £2
   (c) 5p, 25p, 30p, 50p, £1.50
   (d) 15p, 75p, £1.50, £2, £2.50
   (e) 50p, 90p, £1, £2, £3, £4

MONEY – COINS

NUMBER

PUPIL NAME .....

1. Calculate the total amount of each group of coins.

(a)  ☐

(b)  ☐

(c)  ☐

(d)  ☐

(e)  ☐

(f)  ☐

2. Write two sets of equivalent coins to make each amount.

(a)  ☐ ☐

(b)  ☐ ☐

(c)  ☐ ☐

(d)  ☐ ☐

3. Order the amounts from smallest to largest.

(a) 20p, 5p, 50p, 10p _____

(b) 10p, £1, 20p, £2, 50p _____

(c) 30p, 50p, £1.50, 5p, 25p _____

(d) £2, 75p, 15p, £2.50, £1.50 _____

(e) 90p, £4, £1, £2, 50p, £3 _____

SYMMETRY

SHAPE

TEACHER INFORMATION

Objective

Identifies lines of symmetry and completes symmetrical pictures.

Concepts required

Understands a line of symmetry divides a shape or object into two equal halves.

Materials needed

Coloured pencils

Answers

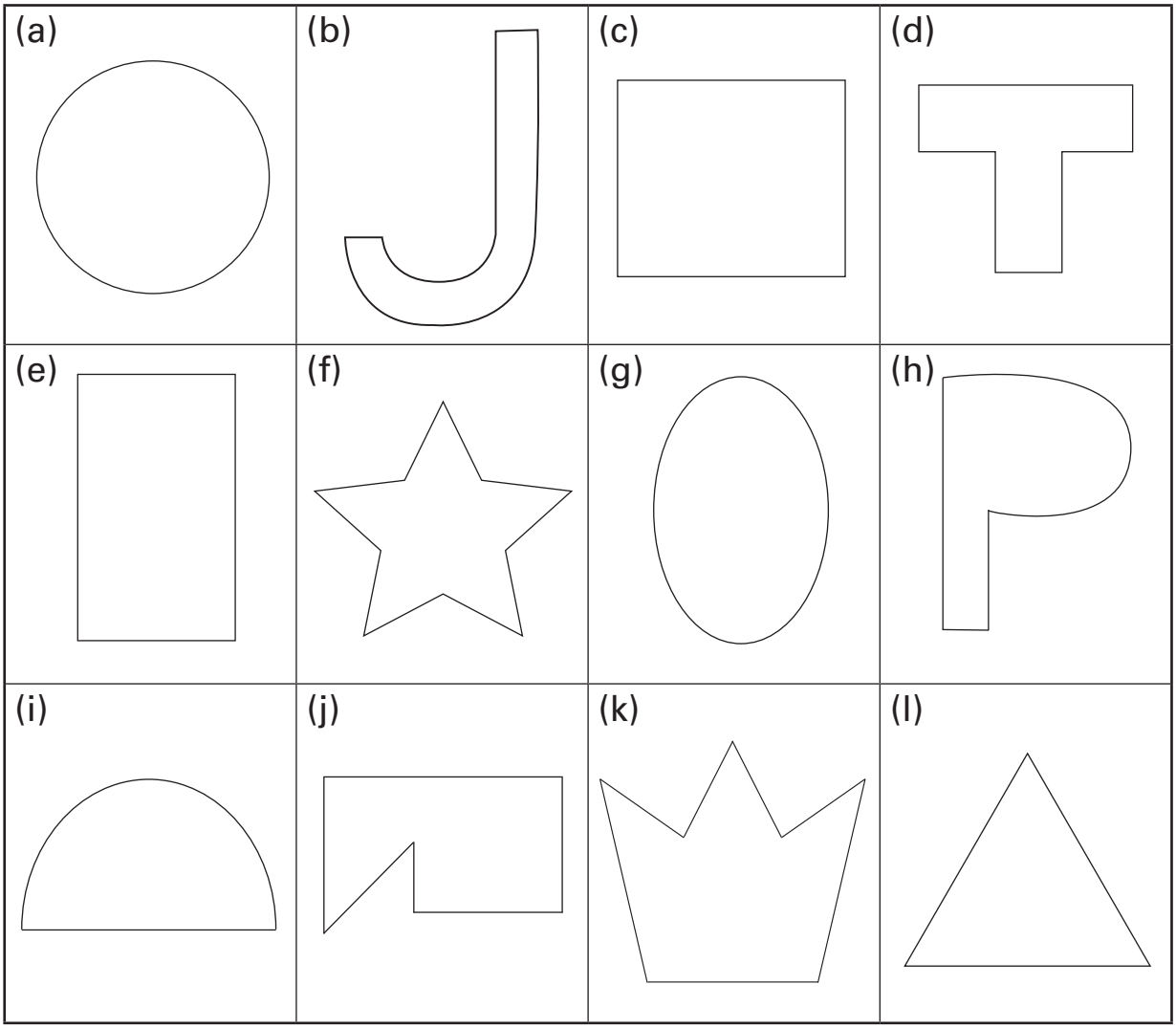
1. Symmetrical shapes—a, c, d, e, f, g, i, k, l
   Teacher check lines of symmetry
2. Teacher check

SYMMETRY

SHAPE

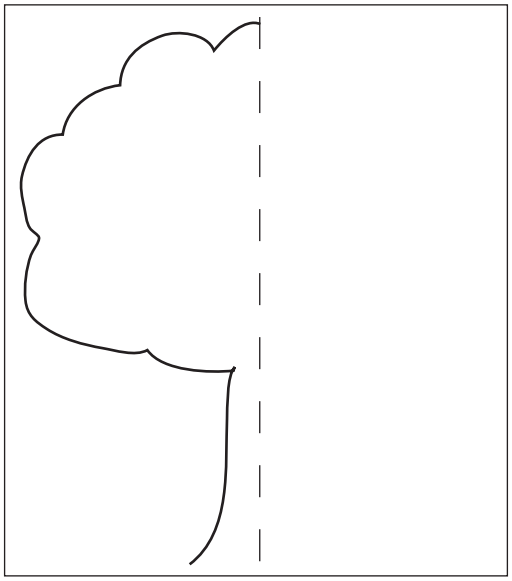
PUPIL NAME .....

1. Decide which shapes are symmetrical. Draw one line of symmetry on those that are. Colour those that are not.



2. Complete the pictures so they are symmetrical.

(a)



(b)