Mathseeds

SUMMER

Open the door to Grade 4!

Math Catch-up • Week 1

BETWEEN GRADES 3 AND 4

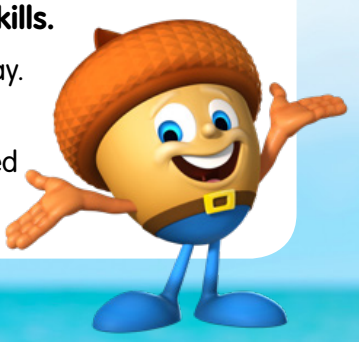
www.mathseeds.com

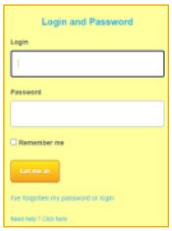
Welcome!

This summer catch up program provides a great way to help your child make the successful transition into 4th Grade. Using fun-filled online learning activities, combined with carefully selected printed activity sheets, this program will boost your child's math skills.

Bridging the gap is simple with **Mathseeds** and can be done in just half an hour a day. So, let's maximize the summer and get started today!

The outline for each week will tell you the online lessons and worksheets to be completed each day, as well as additional **Mental Minute** and **Driving Test** quizzes.





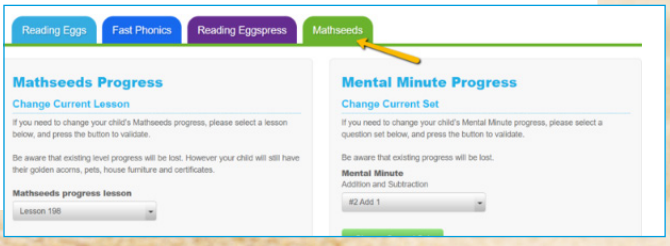
Login

Login in with your parent email and password. If you are unable to remember either of these, please select the *I've forgotten my password or login button* and follow the steps.

To help you navigate through the site we have listed a few steps below. For more information on the program please see our *Parent User Guide*. This can be found on the Family Dashboard in Bonus Material.

If your child is not working at the correct level you can adjust it by clicking here.

Select the program that you wish to adjust your progress for, then use the dropdown menus to adjust.



The **Mental Minute** section is on the student navigation page. There are two sections, the + and – section, and the x and ÷ section. If you need to adjust the progress of the **Mental Minute** sprints you can do so in *Redo placement test or adjust level* as shown above.

Driving Tests can also be found on the Student Navigation screen. Choose the suggested grade level and math topic to work in.

Your child is now ready to begin!

Let's start Week 1

The team behind Mathseeds have created this Summer School program that is guaranteed to boost your child's mathematics skills.

This booklet is the first of ten weekly booklets you will receive over the summer. This summer catch up program provides a great way to make sure that your child knows the essentials they need to make a successful transition into Grade 4.

Over the next 10 weeks, your child will have the opportunity to engage in fun-filled, online learning activities. These activities will allow your child to revisit, consolidate, and build crucial Grade 3 math concepts. In addition, each weekly packet contains a set of carefully selected activity sheets to really boost your child's math skills, getting them ready and excited for Grade 4!

Bridging the gap and avoiding the summer slump is simple with **Mathseeds**, and can be done in just half an hour a day. We recommend you follow these simple steps to keep your child learning through the summer whilst still having fun.

1. Print the student pages for the week. Ensure your child has pencils and erasers to complete the worksheets.
2. To reset your child's Lesson number to **151** go to the *Family Dashboard*.
   - 👉 Click on the **Adjust level** link.
   - 👉 Choose the **Mathseeds** tab and set the **Change Current Lesson** to **Lesson 151**.
   - 👉 Click on **Change Current Lesson** to place your child correctly.
3. Encourage your child to complete the online lesson for the day and then follow up with the worksheets from this booklet.
4. Once each day's work is done, complete the incentive chart.
5. At the end of the week, fill in the certificate. Add stickers if you have them.
6. Enjoy the learning. Keep it light and fun.

We know your child will enjoy learning on **Mathseeds** because **Mathseeds** makes learning fun – and that's what summer is all about!

Get Ready for Grade 4

Week 1

Day 1 focus: Numbers 1000 to 5000
Online lesson: Lesson 151 – Counting 1000 to 5000
Worksheets: Tens, Hundreds, and Thousands, Order 4-digit Numbers

Day 2 focus: Symmetry
Online lesson: Lesson 152 – Symmetry
Worksheets: Lines of Symmetry, Identify Symmetry

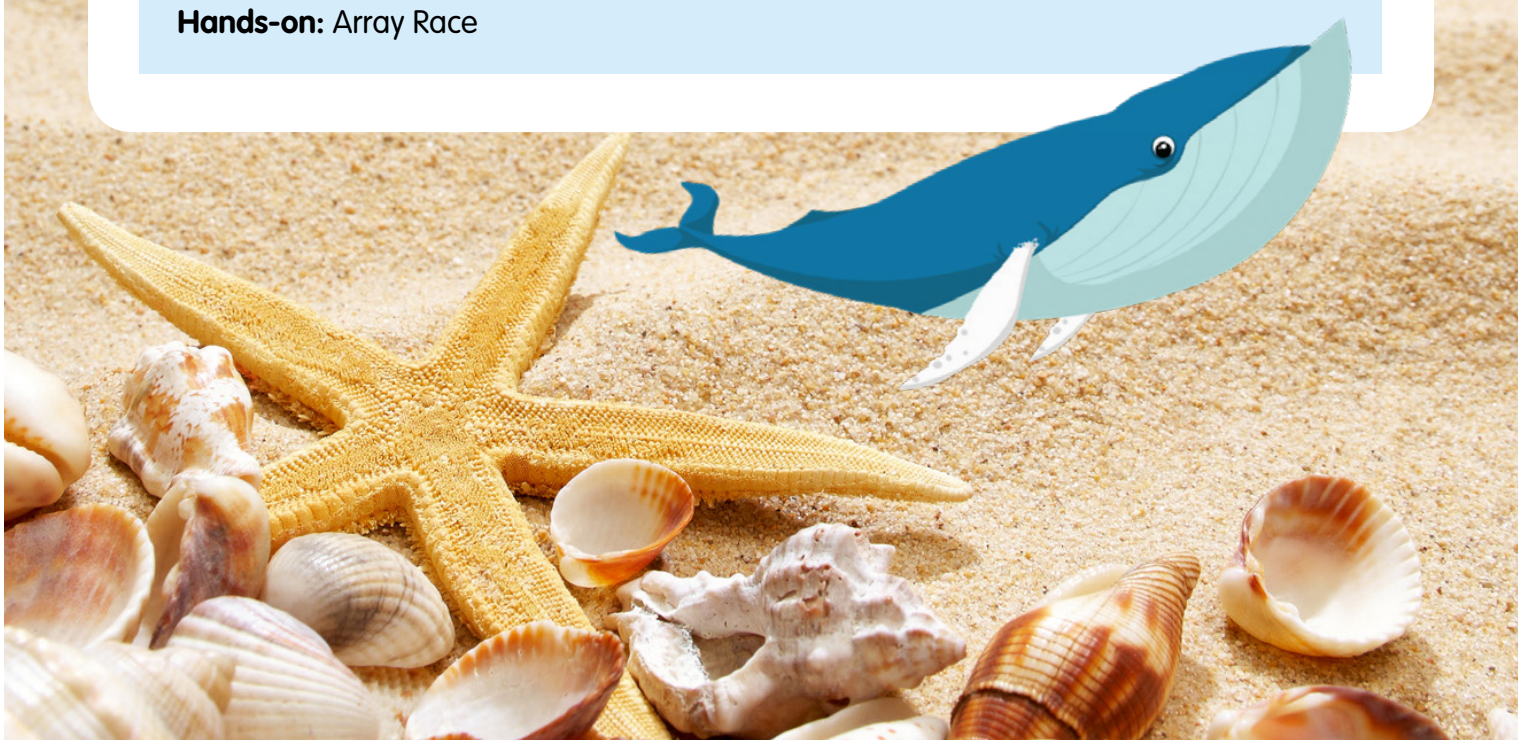
Day 3 focus: Number Patterns: 2-step Rules
Online lesson: Lesson 153 – Number patterns 2
Worksheets: Follow the Rules, What is the Rule?

Day 4 focus: Measuring Capacity
Online lesson: Lesson 154 – Liters and Milliliters
Worksheets: Liters and Milliliters, Measure Capacity

Day 5 focus: Multiplication Revision
Online lesson: Lesson 155 – Multiplication revision
Worksheets: Skip Count to Multiply, Multiplication Problems

Week 1 Bonus

Online: Mental Minute + – Badges 88, 89, 91 and × ÷ Badges 52, 62, 73
Sheets: Dizzy's Numbers, Fibonacci Sequence, Symmetrical Pictures
Hands-on: Array Race



Week 1 • Answers

Week 1 Day 1: Tens, hundreds, and thousands

1 Parent to check
2 **a** 2510, 2520, 2530, 2540, 2550, 2560
b 4950, 4960, 4970, 4980, 4990, 5000
3 **a** < **b** > **c** < **d** > **e** < **f** < **g** < **h** > **i** > **j** < **k** < **l** >

Week 1 Day 1: Order 4-digit Numbers

1 **a** 1563, 2945, 3890, 4798
b 1890, 2490, 3764, 4902
c 4165, 4398, 4629, 4890
2 2316, 3429, 3781, 4213, 4930
3 **a** 2539 **b** 4890

Week 1 Day 2: Lines of Symmetry

Parent to check

Week 1 Day 2: Identify Symmetry

Parent to check

Week 1 Day 3: Follow the Rules

a 10, 13, 16, 19, 22, 25
b 46, 41, 36, 31, 26, 21
c 3, 5, 4, 6, 5
d 11, 8, 13, 10, 15
e 31, 34, 40, 43, 49
f 43, 41, 37, 35, 31
g 14, 24, 19, 29, 24
h 20, 11, 21, 12, 22
i 55, 65, 80, 90, 105
j 81, 76, 72, 67, 63
k 35, 48, 42, 55, 49

Week 1 Day 3: What is the Rule?

1 **a** 30, 40, 35; +10, –5
b 29, 21, 31; –8, +10
c 50, 52, 55; +2, +3
d 90, 81, 87; –9, +6
e 191, 190, 194; +4, –1
f 470, 477, 475; –2, +7
g 871, 875, 878; +3, +4
h 256, 246, 146; –100, –10
i 481, 474, 479; +5, –7
2 **a** 22, 29, 37; add ascending numbers
b 224, 234, 334; +1, +10, +100
c 64, 128, 256; double the last number to find the next

Week 1 Day 4: Liters and Milliliters

1 **a** 2 L **b** 5 L **c** 4 L
2 Parent to check
3 **a** 100 mL **b** 400 mL **c** 350 mL
4 Parent to check

Week 1 Day 4: Measure Capacity

1 **a** 2 L **b** 5 L **c** 1 L
2 **a** 2000 mL **b** 5000 mL **c** 1000 mL
3 **a** mL **b** L **c** mL **d** L
4 **a** ½ L **b** 1½ L **c** 3½ L **d** 4½ L **e** 2½ L

Week 1 Day 5: Skip Count to Multiply

1 **a** 2 + 2 + 2 + 2 + 2 + 2 = 12
b 3, 6, 9, 12, 15
2 16
3 35
4 **a** 10 × 4 = 40 **b** 5 × 3 = 15

Week 1 Day 5: Multiplication Problems

1 15
2 60
3 50
4 12
5 18
6 70 minutes

Week 1 Bonus: Dizzy's Numbers

1 **a** Parent to check
b Parent to check
c 1245, 1254, 1425, 1452, 1524, 1542, 2145, 2154, 2451, 2415, 2514, 2541, 4125, 4152, 4215, 4251, 4512, 4521, 5124, 5142, 5214, 5241, 5412, 5421
d 24
2 **a** 5421 **b** 1542 **c** 2541 **d** 4521
3 Find the largest thousands digit, then the largest hundreds digit, then the largest tens digit, then the largest ones digit.

Week 1 Bonus: Fibonacci Sequence

1 2, 3, 5, 8
2 13, 21, 34, 55
3 5 + 8 = 13, 8 + 13 = 21, 13 + 21 = 34, 21 + 34 = 55
4 34 + 55= 89, 55 + 89= 144, 89 + 144 = 233, 144 + 233 = 377
5 Add the last two numbers to get the next number

Week 1 Bonus: Symmetrical Pictures

Parent to check

Incentive chart for:

Color each one when you have completed each day's work.

Week 1	Monday	Tuesday	Wednesday	Thursday	Friday
Online Lesson	151	152	153	154	155
Worksheets					
Day Done!					

Notes/thoughts/ideas

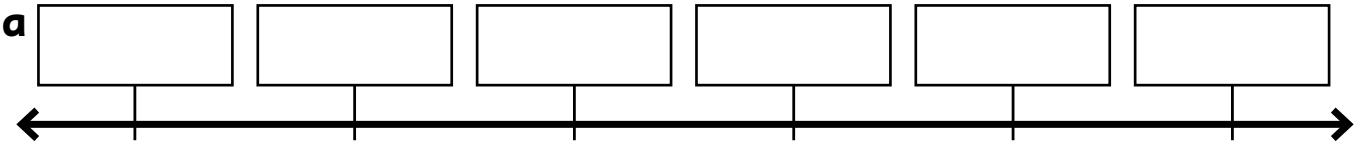
1 Fill in the missing numbers.

100	200	300	400				800	900	
1100	1200	1300	1400	1500	1600				2000
2100			2400	2500	2600	2700			
		3300				3700	3800	3900	4000
4100	4200	4300		4500	4600	4700	4800	4900	

2 Put these numbers in order on the number line.

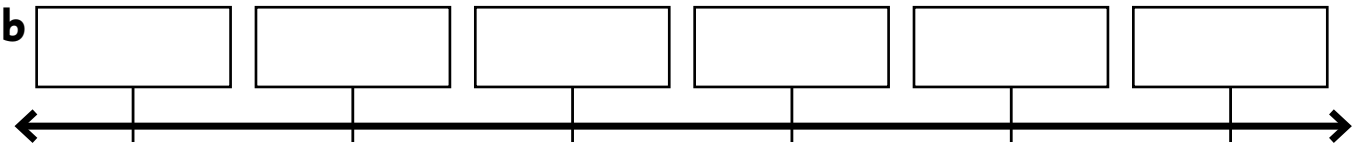
2510 2530 2550 2560 2540 2520

a



4990 4970 5000 4980 4960 4950

b



3 Put the correct symbol in the box: **< >**

a 1000 ☐ 4000 **b** 3400 ☐ 2900 **c** 1100 ☐ 1700

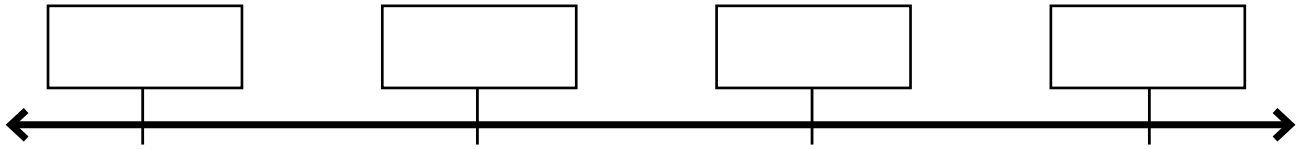
d 4250 ☐ 2070 **e** 1400 ☐ 1900 **f** 3560 ☐ 3760

g 3500 ☐ 3600 **h** 4440 ☐ 4410 **i** 2110 ☐ 2010

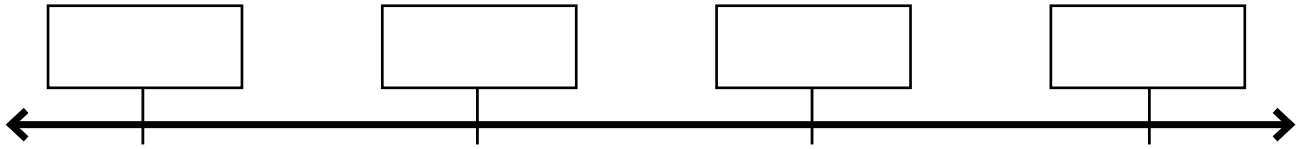
j 2930 ☐ 2970 **k** 3870 ☐ 3880 **l** 1950 ☐ 1780

1 Put these numbers in order on the number line.

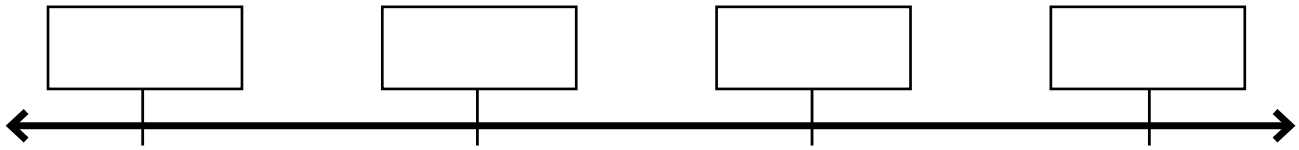
a 1563 4798 2945 3890



b 3764 1890 4902 2490



c 4398 4890 4165 4629



2 Write these numbers in order from **smallest** to **largest**.

3429 4930 2316 3781 4213

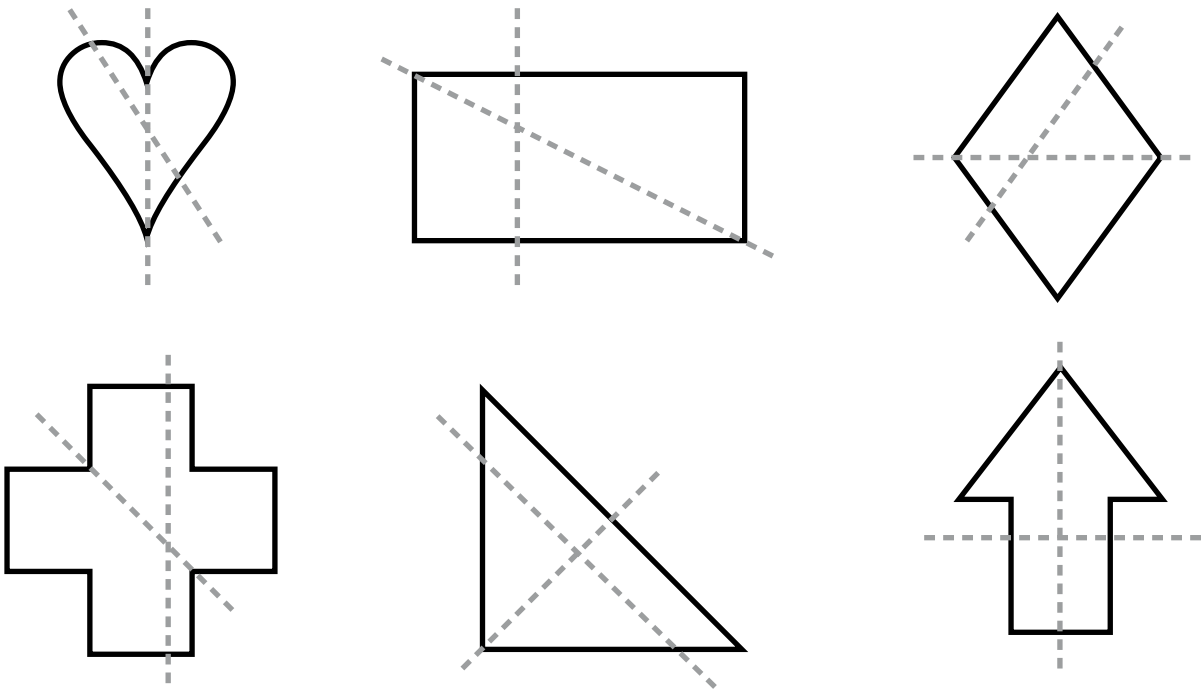
_____

3 Write these numbers in numerals.

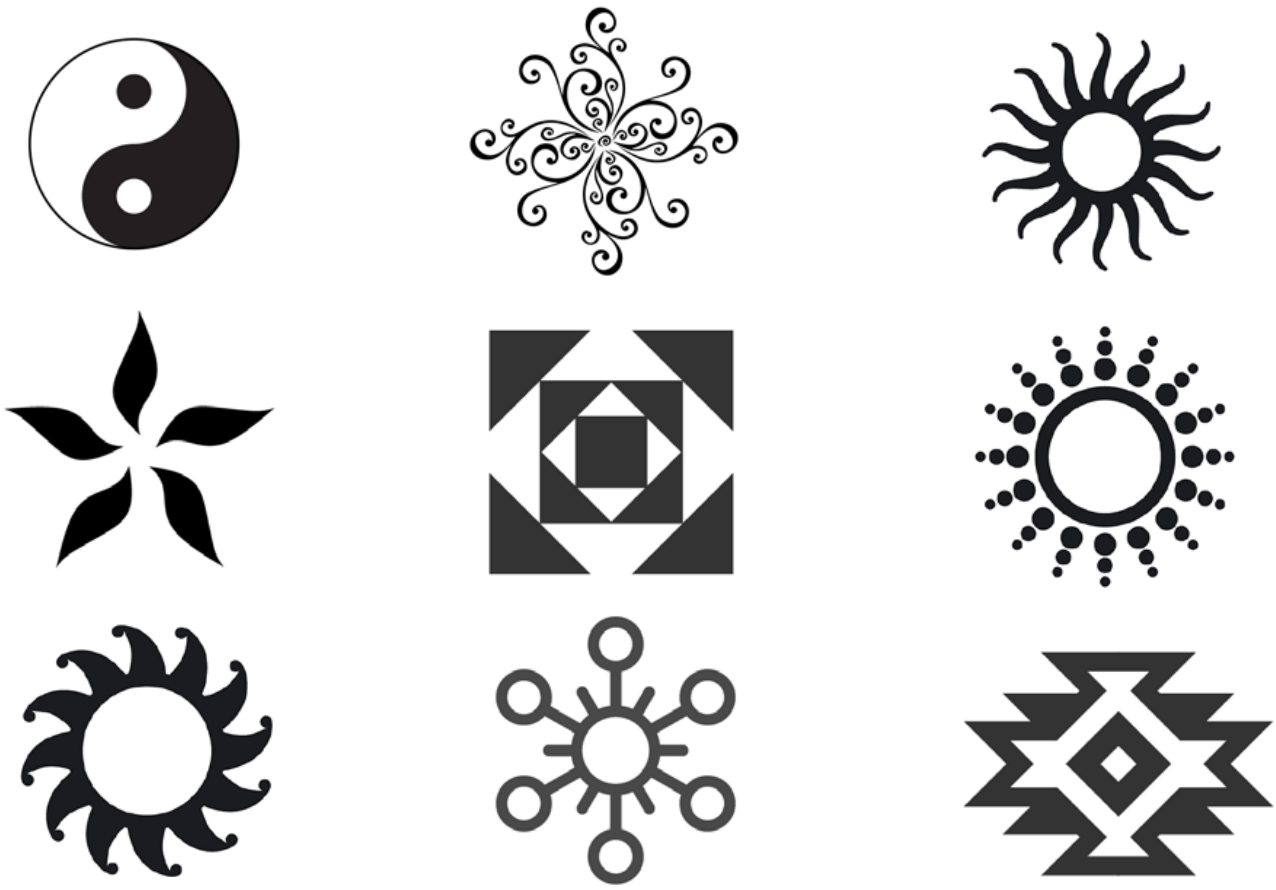
a two thousand, five hundred, and thirty-nine _____

b four thousand, eight hundred, and ninety _____

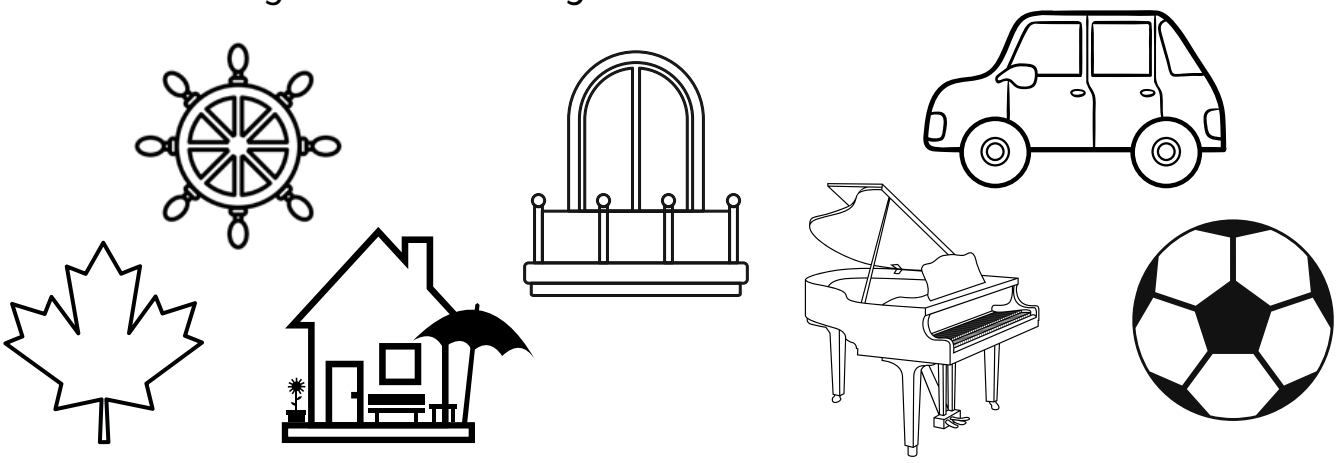
1 Trace over the lines of symmetry.



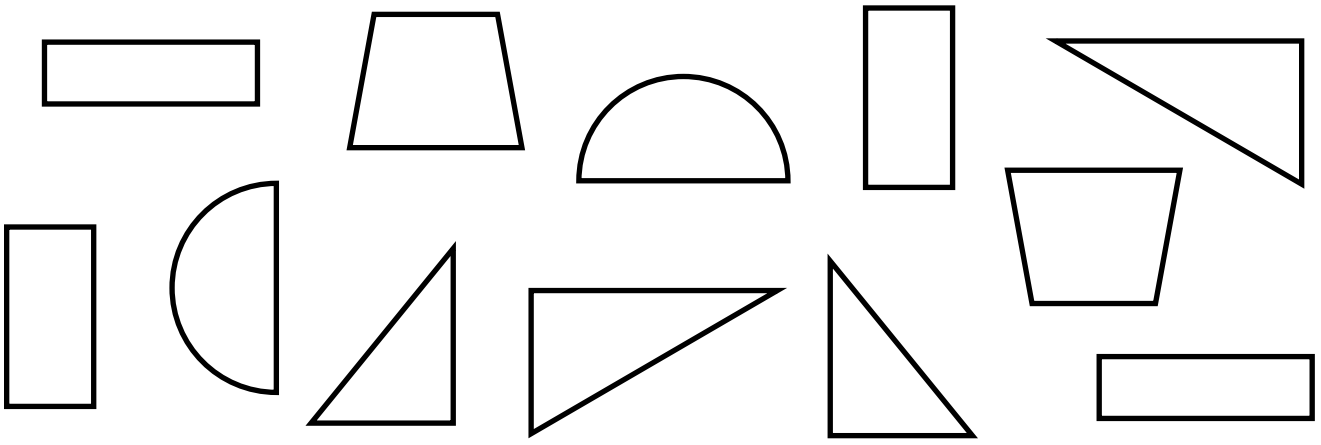
2 Draw a line of symmetry on the patterns that are symmetrical.



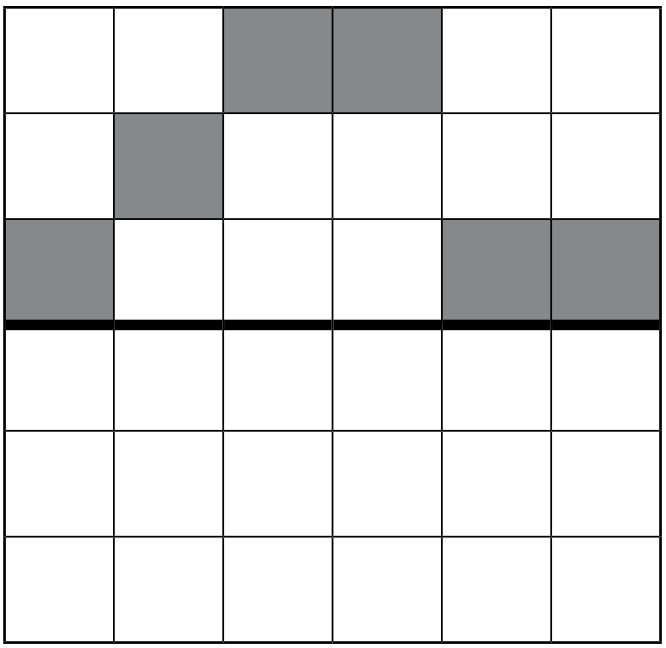
1 Circle the symmetrical things.

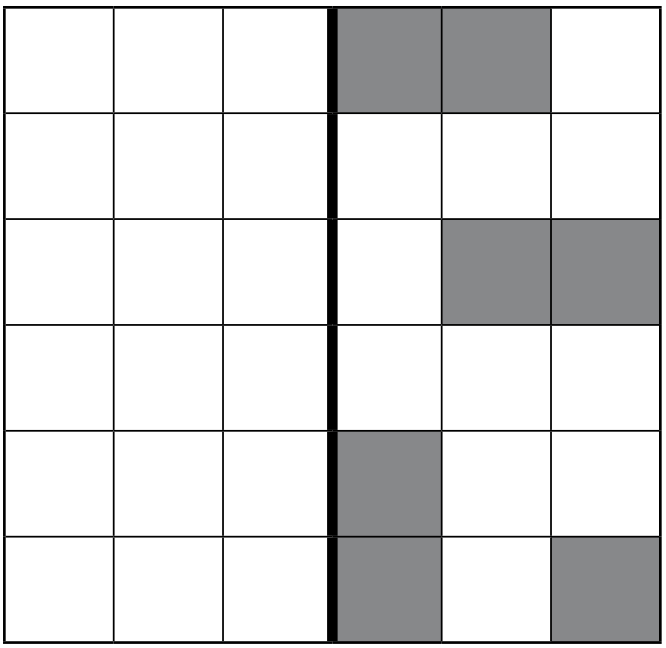


2 Color the symmetrical halves in matching colors.



3 Complete the symmetrical patterns.





Follow the rule to complete the pattern.

a	**+3**	1	4	7					
b	**–5**	61	56	51					
c	**+2, –1**	1	3	2	4				
d	**–3, +5**	7	4	9	6				
e	**+3, +6**	13	16	22	25				
f	**–2, –4**	55	53	49	47				
g	**+10, –5**	4	14	9	19				
h	**–9, +10**	18	9	19	10				
i	**+10, +15**	5	15	30	40				
j	**–5, –4**	99	94	90	85				
k	**+13, –6**	21	34	28	41				

1 What comes next? What is the rule?

a 15, 25, 20, 30, 25, 35, ____, ____, ____ +_____, −_____

b 23, 15, 25, 17, 27, 19, ____, ____, ____ _____, _____

c 35, 37, 40, 42, 45, 47, ____, ____, ____ _____, _____

d 99, 90, 96, 87, 93, 84, ____, ____, ____ _____, _____

e 181, 185, 184, 188, 187, ____, ____, ____ _____, _____

f 462, 460, 467, 465, 472, ____, ____, ____ _____, _____

g 854, 857, 861, 864, 868, ____, ____, ____ _____, _____

h 576, 476, 466, 366, 356, ____, ____, ____ _____, _____

i 480, 485, 478, 483, 476, ____, ____, ____ _____, _____

2 Now try these trickier ones. What is the rule?

a 1, 2, 4, 7, 11, 16, ____, ____, ____

_____

b 1, 2, 12, 112, 113, 123, 223, ____, ____, ____

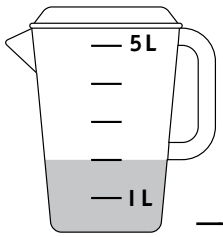
_____

c 1, 2, 4, 8, 16, 32 ____, ____, ____

_____

1 Write the measurement in liters, *eg* 1 L.

a



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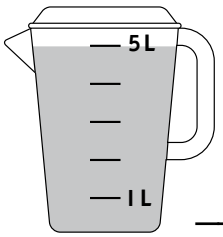
b



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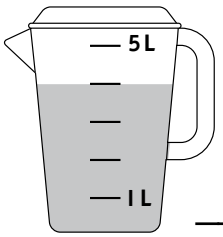
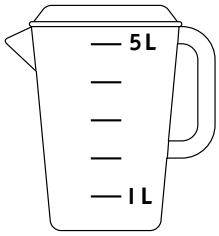
c

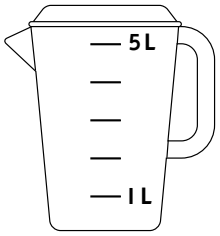


_____

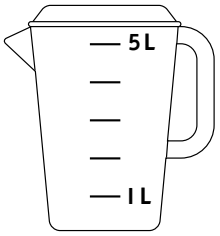
2 Color the jugs to show the amounts.



three liters



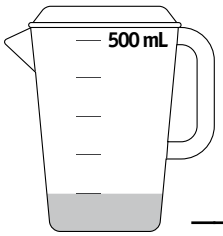
five liters



two liters

3 Write the measurement in milliliters, *eg* 200 mL.

a



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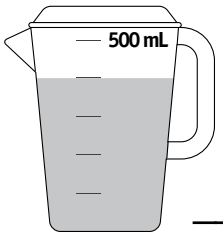
b



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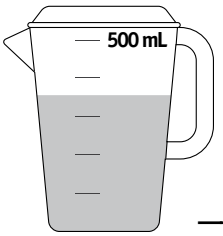
c



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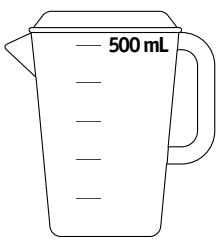
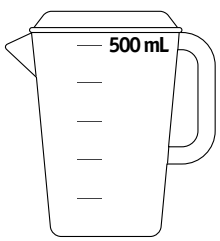
4 Color the jugs to show the amounts.

a



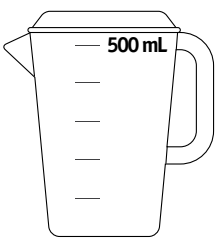
300 mL

b



450 mL

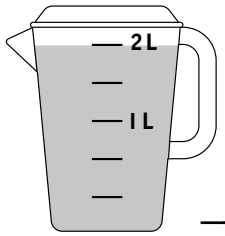
c



150 mL

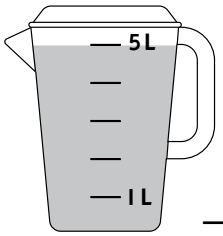
1 Write the capacity of each jug in liters.

a



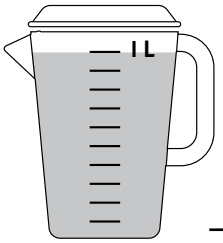
_____ L

b



_____ L

c



_____ L

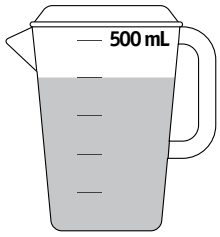
2 Write the same capacities in milliliters.

a _____ mL

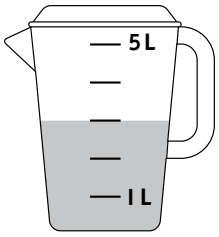
b _____ mL

c _____ mL

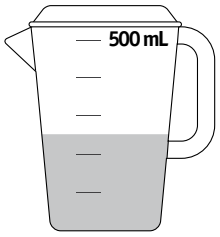
3 Which units should you write the measurement in – mL or L?



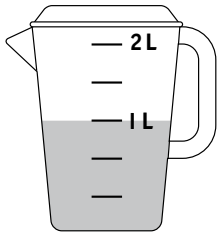
a _____



b _____



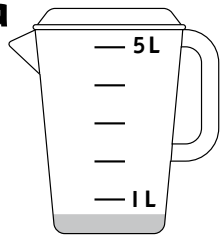
c _____



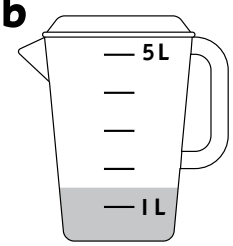
d _____

4 Match the correct label to each jug.

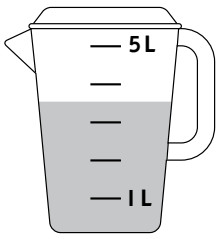
a



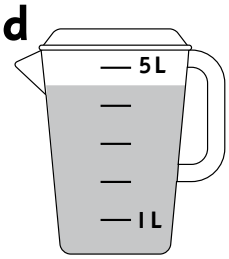
b



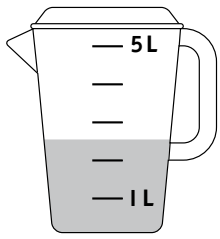
c



d



e



$3\frac{1}{2}$ L

$\frac{1}{2}$ L

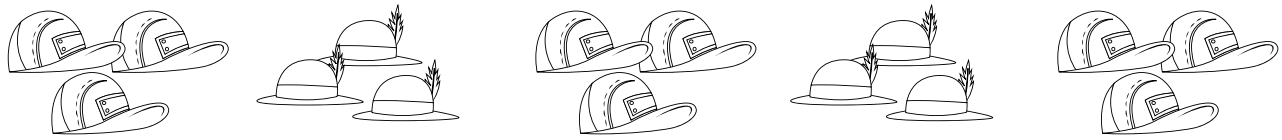
$1\frac{1}{2}$ L

$2\frac{1}{2}$ L

$4\frac{1}{2}$ L

1 How many? Fill in the repeated addition.

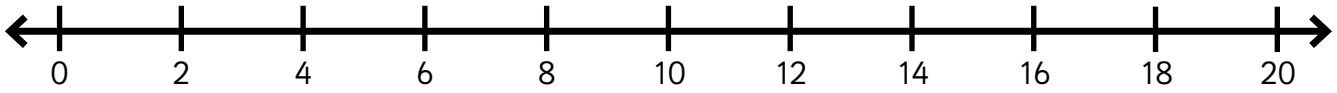
a 2 + 2 + ☐ + ☐ + ☐ + ☐ = ☐



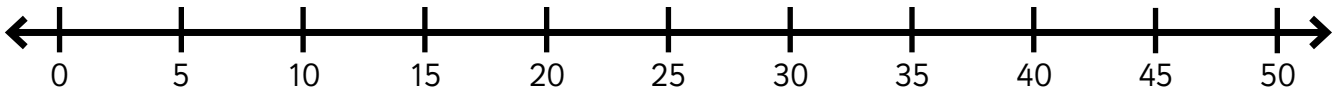
b 3, ☐, ☐, ☐, ☐

Jump along the number line to find how many.

2 I buy 8 pairs of shoes. How many shoes altogether? _____

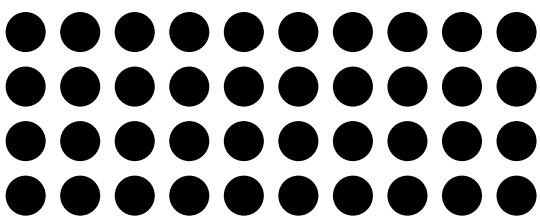


3 7 × 5 = _____



4 Write an equation to match the array.

a



☐ × ☐ = ☐

b

☐ × ☐ = ☐

1 Ruby folds t-shirts into piles of five. She has three piles. How many shirts altogether?

☐ shirts

2 Dizzy grabs six bags of balls for game day. Each bag has ten balls in it. How many balls altogether?

☐ balls

3 Doc has five shelves with ten books on each shelf. How many books altogether?

☐ books

4 Ruby, Mrs. T, and Mango are trying on hats. They end up buying four hats each. How many hats altogether?

☐ hats

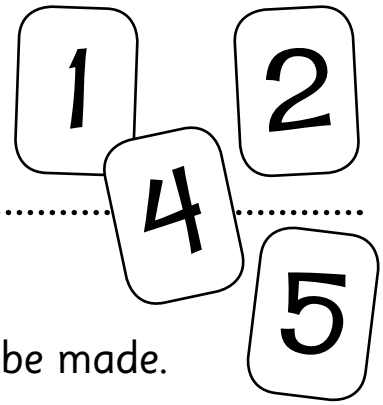
5 Mrs. T uses three tea bags for each pot of tea. She drank six pots of tea today. How many tea bags did she use?

☐ bags

6 Waldo naps for ten minutes. He does this seven times today! How much extra sleep did Waldo get from his naps?

☐ mins

1 Dizzy has four number cards: 1, 2, 4, and 5.
How many 4-digit numbers can he make?



a Underline the question. **b** Circle the facts.

c Make a list of all the 4-digit numbers that can be made.

_____

_____

_____

_____

_____

_____

d There are _____ 4-digit numbers.

2 Mango has some questions.

a What is the largest number on the list? _____

b What is the largest number starting with 1? _____

c What is the largest number starting with 2? _____

d What is the largest number starting with 4? _____

3 How do you find the largest number in a list? Write the steps.

_____

_____

_____

_____

1 Complete these sums.

1 + 1 = ☐

1 + 2 = ☐

2 + 3 = ☐

3 + 5 = ☐

2 Find the next four numbers in the Fibonacci sequence.

1, 1, 2, 3, 5, 8, ☐, ☐, ☐, ☐

3 Complete the sums for the numbers you added to the sequence.

5 + 8 = ☐

8 + ☐ = ☐

☐ + ☐ = ☐

☐ + ☐ = ☐

4 Find the next four numbers in the Fibonacci sequence.

34 + 55 = ☐

55 + ☐ = ☐

☐ + ☐ = ☐

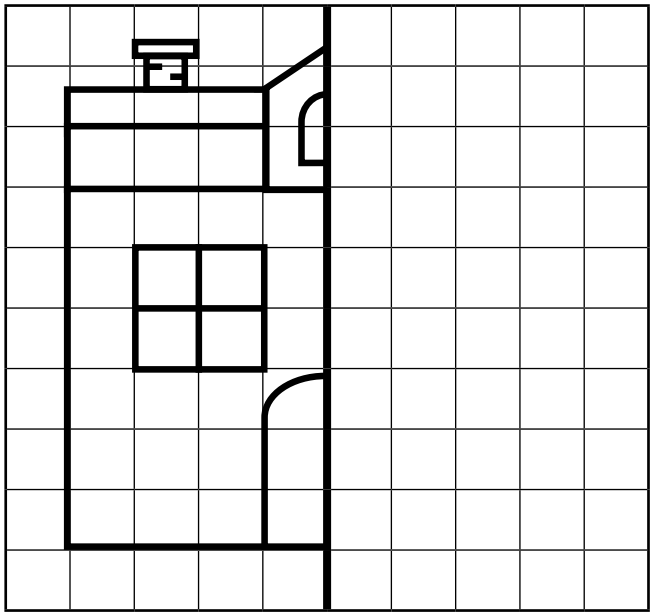
☐ + ☐ = ☐

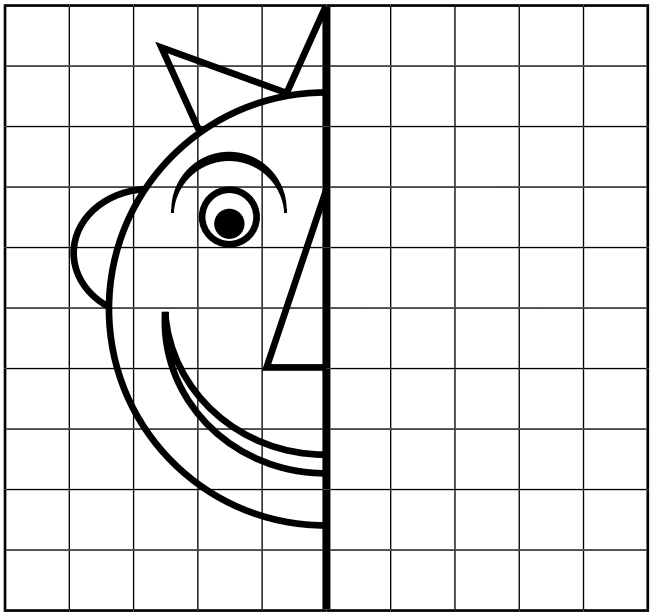
5 Explain the rule for the Fibonacci sequence.

_____

_____

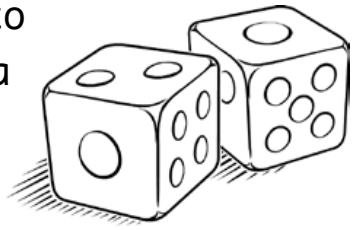
1 Complete the symmetrical pictures.





2 Draw your own symmetrical picture.

You need a partner, a different colored pencil each, and two dice.



1. Player A rolls both dice. Use the two numbers to color in an array that size. For example, if roll a 5 and a 3, then you color 5 rows of 3 squares.
2. Player B rolls the dice and colors an array.
3. Keep taking turns until one player can't fit their array in. The winner has colored in the most squares.

Mathseeds

Fantastic!

You have successfully finished Week 1!

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