Name: _____   Class: _____

St Johns Park Public School Year 4 (Term 4 Week 3 2021)

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	**Fitness** ● 15 jumping jacks ● 30 sec side to side step ● 40 sec sprint on the spot ● 20 arm circles **Repeat these steps 2 times.** **Education LIVE** Tune in to Education LIVE at 10am for the live stream. https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home **English** **Reading and Viewing** Read and annotate the text '**Water Pollution**" and then answer the following questions: **1.** Define Water Pollution. **2.** What are some examples of water pollution? **3.** Why has water pollution become a global concern? **4.** What are the effects of	**Fitness** Watch the following video https://bit.ly/3CeIaA1 **Education LIVE** Tune in to Education LIVE at 10am for the live stream. https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home **English** **Reading and Viewing** Login to Seesaw and complete the '**Water Pollution by Gary Reimann**' activity assigned. **Speaking and Listening** Compare and contrast the text you have read about water pollution to the video you have watched today. Which one do you prefer	**Fitness** ● 15 lunges ● 30 second marching ● 10 leapfrog ● 1 minute heel walking **Repeat these steps 2 times.** **Education LIVE** Tune in to Education LIVE at 10am for the live stream. https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home **English** **Reading and Viewing** Watch the video '**How long does your garbage take to decompose**' https://bit.ly/3D9pJwQ Answer the following questions. **1.** How long will each item decompose? ● Leather - ● Milk carton – ● Aluminium cans –	**Fitness** Watch the following video: https://bit.ly/3CeIaA1 **Education LIVE** Tune in to Education LIVE at 10am for the live stream. https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home **English** **Reading and Viewing** Read and annotate **Want to Help Save the World? Go Plogging!** Answer the following questions. **1.** What is plogging? **2.** Who created Plogging? **3.** How is plogging also exercise? **4.** What are the two main benefits of plogging?	**Fitness** ● 20 arm circles ● 30 sec sprint on the spot ● 10 burpees ● 30 sec crab walk **Repeat these steps 2 times.** **Education LIVE** Tune in to Education LIVE at 10am for the live stream. https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home **English** **Reading and Viewing** Read or listen to '**Mr Kessel's Bush Tucker garden**' https://bit.ly/3BfyPaT **1.** Visualise the setting in the story, including the house and the garden. **2.** Draw and label what you think the house and garden look like. **Writing & Representing**

Day 1	Day 2	Day 3	Day 4	Day 5
water pollution? **5.** What can you do to prevent water pollution? **6.** Give advice to the public regarding reducing water pollution. **Speaking and Listening** Share with someone at home, two natural activities that cause water pollution. (Record & post response) **Writing & Representing** Write a paragraph convincing the public to stop polluting our water. Remember to edit and publish your paragraph. **Spelling** Copy words and practice daily using the 'Look, Cover, Write & Check' method daily.	and why? Record and post response in seesaw. **Writing & Representing** Look at the '**Water Pollution**' image and complete the Y-Chart provided. - looks like - feels like - sounds like **Spelling** Choose 5 words from your list that you would like to expand your vocabulary knowledge on. Define each using a dictionary in your own words and then use them in sentences. **Grammar** Login to Seesaw and complete the '**Vocabulary Activity by Debra Sgambato**' activity assigned.	• Apple core – • Cigarette butt – **2.** What can we use instead of plastic bags? **3.** List 6 items from your house and write how long it will take to decompose. **Writing & Representing** Create a poster persuading Year 4 students to recycle. Things you may include in your poster: What can be recycled, why do we recycle, how can we recycle. Remember to include all the features of a poster. **Speaking & Listening** Record yourself explaining your poster to a Year 4 class. Post it in Seesaw.	**Writing & Representing** Create a mind map of how plogging can help save the world. **Speaking & Listening** Create an advertisement about Plogging. You can either record yourself using the camera or just your voice. Post it in Seesaw. **Spelling** Login to Seesaw and choose 5 words from your list to complete the '**Spelling Sentences**' activity assigned. **Pencil Jumps - Brain Break** Place a pencil on the floor and jump over forwards and backwards, 10 times. Then jump 10 more times side to side.	Look at your drawing of Mr Kessel's house and garden. Write a paragraph describing your picture of Mr Kessel's house and garden. Remember to include adjectives and similes in your descriptive paragraph. **Enviroweek 2021** In the worksheet provided, decorate the recycling symbol using various pictures related to recycling. **YEAR 4 Grade Zoom 11-12pm** A zoom link will be sent to you in Seesaw from your teacher.
Reading Eggs Sign in to Reading Eggs and complete an activity of your choice.	**Reading Eggs** Sign in to Reading Eggs and complete an activity of your choice.	**Reading Eggs** Sign in to Reading Eggs and complete an activity of your choice.	**Reading Eggs** Sign in to Reading Eggs and complete an activity of your choice.	**Reading Eggs** Sign in to Reading Eggs and complete an activity of your choice.
Break	Break	Break	Break	Break

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Middle	Mathematics	Mathematics	Mathematics	Mathematics	Mathematics
	Mentals Complete Maths Mentals (15 questions)	**Mentals** Complete Maths Mentals (15 questions)	**Mentals** Complete Maths Mentals (15 questions)	**Mentals** Complete Maths Mentals (15 questions)	**Mentals** Complete Maths Mentals (15 questions)
	Position (MA2-17MG) **INDEPENDENT TASK** You will receive your **questions** on Zoom at 1pm with your classroom teacher. Answer the questions on the answer sheet provided.	**Time (MA2-13MG)** Watch the video on https://bit.ly/3mmBJo5 Login to Seesaw and complete **'Let's learn about Calendars'** activity assigned. Answer the questions on the answer sheet provided.	**Fractions & Decimals (MA2-7NA)** Watch the video on https://www.youtube.com/watch?v=ibR_iBxnITE&ab_channel=MathwithMr.J Login to Seesaw and complete **'Writing fractions and decimals'** activity assigned.	**Multiplication & Division (MA2-5NA)** Watch the video on https://www.youtube.com/watch?v=FApcjdAhnrY&ab_channel=Let%27sDoMath Complete the **"Division with remainder"** Worksheet	**Chance (MA2-19SP)** Login to Seesaw and complete **'Everyday Events - Chance and Probability'** activity assigned.
	Addition & Subtraction (MA2-5NA) Watch the video on Complete the **"Subtraction"** Worksheet	**Subtraction Game** Pick a level and play the subtraction fruit splat game on https://www.sheppardsoftware.com/math/subtraction/fruit-splat-game/		**Sport** Keeping active through physical activity and sport has many benefits for the body. Go outside and play a sport of your choice for at least 30 minutes.	
	MANGAHIGH https://bit.ly/3m2GzbD Log onto MANGAHIGH and complete an activity.	**MANGAHIGH** https://bit.ly/3m2GzbD Log onto MANGAHIGH and complete an activity.	**MANGAHIGH** https://bit.ly/3m2GzbD Log onto MANGAHIGH and complete an activity.	**MANGAHIGH** https://bit.ly/3m2GzbD Log onto MANGAHIGH and complete an activity.	**MANGAHIGH** https://bit.ly/3m2GzbD Log onto MANGAHIGH and complete an activity.
Break	Break	Break	Break	Break	Break

Afternoon	PDHPE	BTN	Science and Technology	Geography	Creative Arts - Music
	Topic: 'Belonging in Our Community'	**BTN** Watch 'Behind the News' on ABC Me.	**Topic: 'Matters of Change' (ST2-6MW-S)- Chocolate Experiment**	**Topic: 'Commercial & Recreational Sustainability' (GE2-1)**	Complete '**Colourful Melodies**' lesson.
	Watch the video '*Diversity of Cultures*' posted in Seesaw.	https://www.abc.net.au/btn/classroom/	Watch the pre-recorded lesson on '**Chocolate Experiment**' that your teacher uploads to Seesaw or by following the link:	Login to Seesaw and complete the '**What can communities do to protect their environment?**' activity assigned.	https://sites.google.com/education.nsw.gov.au/tau-home-colourful-melodies
	Complete the *Diversity of Cultures* worksheet and post it in Seesaw.	Choose your favourite story. Write a summary of the story. In your summary include 4-6 interesting facts	https://youtu.be/sA-EKYxGVwg		Record your water xylophone performance and post your puppet show in Seesaw.
		Sport Keeping active through physical activity and sport has many benefits for the body. Go outside and play a sport of your choice for at least 30 minutes.	Complete the experiment and the worksheet as you are watching the lesson.		

Spelling List

Term 4 Week 3

1. domino
2. ghetto
3. gazebo
4. halo
5. lasso
6. puddle
7. danger
8. saddle
9. address
10. detective
11. shouldn't
12. would've
13. mightn't
14. could've
15. useful

Theme Words

16. neighbourhood
17. nutritious
18. composting
19. pollution
20. climate

WATER POLLUTION

What is water pollution?

Water pollution is the process which happens when pollutants contaminate water. Contamination of water bodies like lakes, rivers, oceans and groundwater occur when pollutants are discharged directly or indirectly into water bodies without any treatment to remove harmful compounds. Water pollution has become a global concern now as many deaths and diseases are caused by drinking impure, dirty water. Many countries like India and China lack adequate amount of safe drinking water and thousands die every day due to drinking contaminated water. Even developed countries like the United States of America suffer from the issue of contaminated water. When water is affected by anthropogenic (caused by humans) contaminants, it is said to be polluted. This means that this water is not safe for drinking purposes.

Who pollutes water?

Earthquakes, volcano eruptions and natural environmental disasters add a large amount of pollution to water bodies. Human and animal waste too, pollute water and make it harmful for consumption.

Every year tonnes of industrial waste and toxic chemicals from factories and manufacturing plants are released directly into water bodies, without proper waste management or recycling, harming the balance of water bodies.

Wastes from humans and animals too pollute water and make it harmful for consumption. Toxic chemicals discharged directly into water bodies without control or contamination management, also pollute water and cause irreparable harm to marine life.

Some common ways water is polluted

1. Oil spills from huge ships
2. Leakage of fuel from boats
3. Chemical waste from industries
4. Plastics thrown in rivers
5. Mining
6. Dumping trash into water bodies
7. Sewage water produced by households
8. Burning of fossils fuels like coal and oil
9. Chemical fertilizers

Types of water pollution

1. Nutrients pollution : Industries throw their wastes like fertilizers, waste water and sewage into river bodies. These make weed and algae grow rapidly in the water, making it unsuitable for drinking while depleting the level of oxygen in the water. This harms the organisms living in water.

2. Surface water pollution : Ground pollutants like chemical wastes, insecticides and other wastes mix with rain water run offs, dissolve and mix with water bodies like streams, rivers and lakes. This is known as surface water pollution.

3. Oxygen depletion : Water contains aerobic and anaerobic organisms, i.e., organisms which need oxygen to grow and which die in oxygen, respectively. With an increase in water pollutants, the oxygen level will deplete, leading to the death/choking of aerobic organisms.

4. Ground water pollution : Chemicals and pesticides are used in growing crops. These harmful substances enter the ground along with rainwater and cause the water table to get contaminated. This is known as groundwater pollution. They also enter lakes and rivers when groundwater spills occur.

Effects of water pollution

The accumulation of garbage in our water bodies come from human activities and neglect and total disrespect for our natural resources. The effects of water pollution are gory and have long term effects which are very difficult to undo. It makes sea creatures like fishes, sea turtles, seals and even birds die, because materials such as plastic is mistaken as food by animals and eaten. Since it cannot be digested, it sometimes causes death in some cases.

Unclean and contaminated water causes human deaths and diseases. In many places, water comes in contact with industrial and human wastes and people drink such contaminated water. They are prone to deaths and diseases like hepatitis, cholera or typhoid. Water pollution accounts for as many as three million deaths every year, most of which are children.

Water pollution disrupts the food chain on land, water and air. Tiny animals eat toxins along with their food. Bigger animals eat smaller animals. This leads to high levels of chemical toxicity in bigger animals. Toxins accumulation from the lower level to higher level of the food chain occurs.

Things that you can do to conserve water and make it safe :

- Water is precious, so use water wisely. Do not waste water in the shower and always close taps when not in use.
- Do not throw paint, oil, medicines or plastic down your toilet drains. Contact your municipal corporation for help with disposing chemicals or medicines.
- Plant lots and lots of trees around your homes to encourage clean rain water to replenish your water table/ground water and adopt rain water harvesting.
- Farmers can be encouraged to use Integrated Pest Management techniques to control pests and reduce dependency on chemical pesticides.

Monday

1. 80 – 8 = ____

2. 85 + 78 = ____

3. 21 – 2 = ____

4. 64 ÷ 2 = _____

5. 3 x 3 = ____

6. Write the numeral for four thousand, two hundred and forty-one: _____

7. Complete this counting pattern:
69, 73, 77, 81, _____, _____, _____

8. What is the sum of 75 and 11? ____

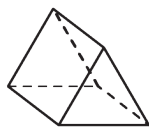9. Divide 42 by 6. _____

10. 20 cents + 5 cents + $1.00 = _____

11. 50 cents + 10 cents + $1.00 = _____

12. What digital time does the clock show? _____

13. How many minutes from 8 am to 9 pm? _____

14. What is the name of this 3D object? _____

15. Which star has the highest chance of being selected? Black or white? _____

Tuesday

1. 97 – 6 = ____

2. 56 + 40 = ____

3. 61 + 49 = ____

4. 27 ÷ 9 = _____

5. 4 x 8 = ____

6. Write these numbers in descending order: 6673, 8544, 2566, 6069, 2541, 2275.

_____

7. Complete this counting pattern:
58, 62, 66, 70, _____, _____, _____

8. In a group of 79 students, 4 would like to play softball and the rest want to play rugby league. How many want to play rugby league? ____

9. What is the product of 7 and 8? ____

10. 10 cents + 50 cents + $2.00 = _____

11. $1.00 + 10 cents + 50 cents = _____

12. If it was 2:45 in the afternoon, would you write am or pm? _____

13. How many weeks is 49 days? _____

14. What is the name of this 3D object? _____
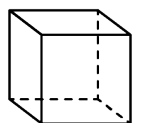
15. Which circle has the highest chance of being selected? Black or white? _____

WEEK 3 Position Independent Task
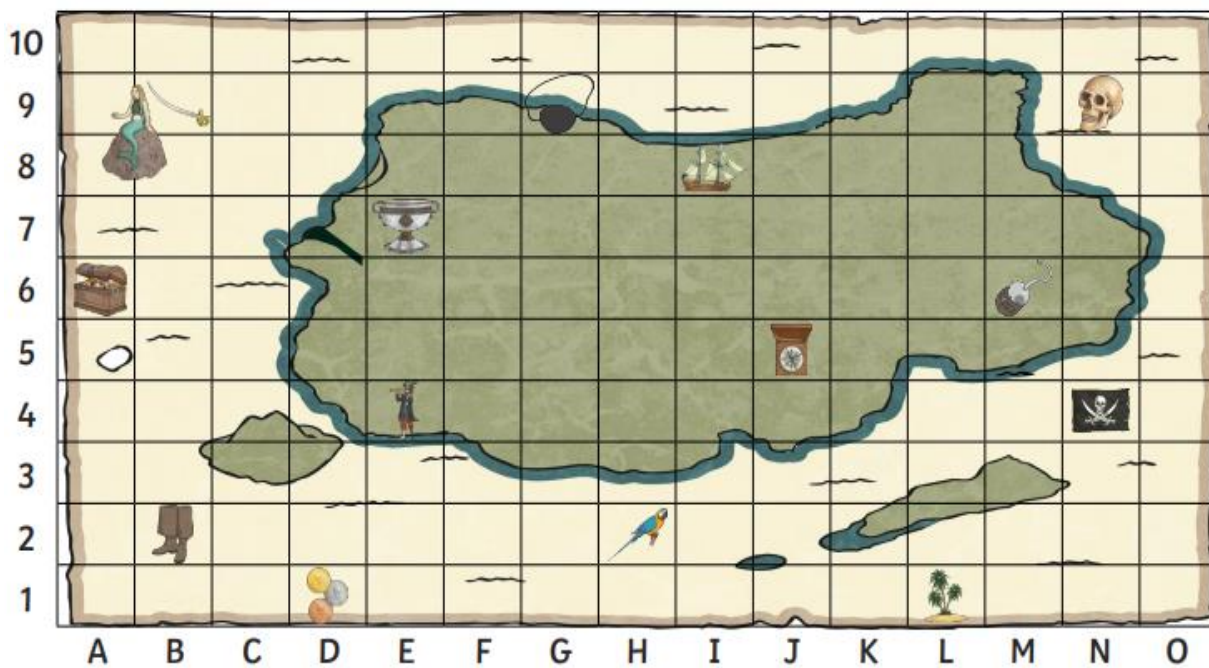
1. **Answer the question by using a cross (X) in the grid.**

2.

     a) _____   b) _____   c) _____

3.

a) _____

b) _____

c) _____

4.

a)

_____

_____

Subtraction

1. **Complete the 3-digit algorithms (trading in tens).**

a

Hund	Tens	Ones
7	4	8
− 3	7	5

b

Hund	Tens	Ones
8	3	3
− 6	5	1

c

Hund	Tens	Ones
6	4	6
− 3	7	5

2. **These subtractions require trading in the ones or tens columns.**

a	**b**	**c**	**d**	**e**
6 7 4 3	8 6 4 2	8 5 2 0	7 7 3 2	5 6 4 2
− 3 4 1 6	− 3 2 5 0	− 6 2 4 6	− 3 5 4 1	− 2 0 7 1

f	**g**	**h**	**i**	**j**
6 8 3 5	7 6 4 3	3 5 2 0	6 7 9 0	2 7 3 3
− 2 5 6 8	− 3 3 5 7	− 2 4 3	− 2 4 3 9	− 2 6 6

3. **Calculate the difference in population between:**

a Narrabri and Nyngan	**b** West Wyalong and Nyngan	**c** Hay and Wilcannia	**d** Cooma and Hay

Populations of NSW towns	
Town or city	**Populations**
Narrabri	6419
Nyngan	2240
West Wyalong	3419
Cooma	7150
Hay	2896
Wilcannia	688

3 Create a problem to suit the algorithm.

Hund	Tens	Ones
8	4	3
− 6	2	5

My Culture and Traditions!

Use this worksheet to share the culture and traditions of your family.

My favourite food to eat

Other interesting facts about my culture

My favourite family tradition

Holidays celebrated in my culture

Language my family and I speak

Clothes worn in my culture

Water Pollution

A child in waist-high filthy water in Indonesia. Water pollution is the number one cause of death in many countries across the world. (Image: pelicanwater.com)

Y Chart

Feels like

Sounds like

Looks like

Wednesday

1. 71 – 3 = ____

2. 48 + 1 = ____

3. 80 + 58 = ____

4. 24 ÷ 6 = _____

5. 3 x 3 = ____

6. Write the largest number you can using: 2, 4, 9, 9. _____

7. Complete this counting pattern:
8, 16, 24, 32, _____, _____, _____

8. What is the difference between 37 and 33? ____

9. Divide 60 by 5. _____

10. $2.00 + $1.00 + 50 cents = _____

11. $2.00 + 50 cents + 20 cents = _____

12. 60 minutes = _____ hours

13. How many days are in January? _____

14. What is the name of this 3D object? ____

15. Which star has the lowest chance of being selected? Black or white? _____

Thursday

1. 1 + 9 = ____

2. 75 – 9 = ____

3. 48 – 2 = ____

4. 7 x 5 = ____

5. 108 ÷ 9 = _____

6. Write the largest number you can using: 2, 4, 3, 9. _____

7. Complete this counting pattern:
5, 15, 25, 35, _____, _____, _____

8. What is the sum of 20 and 39? ____
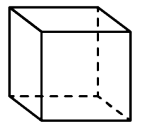
9. What is the product of 7 and 1? ____

10. 5 cents + 20 cents + 50 cents = _____

11. 5 cents + 20 cents + 10 cents = _____
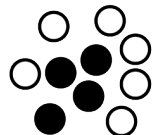
12. How many minutes is 420 seconds? _____

13. How many days is 72 hours? _____

14. How many faces does a cube have? ____

15. Which circle has the lowest chance of being selected? Black or white? _____

MATHS MENTALS

teachstarter
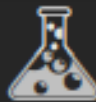
Chocolate experiment worksheet

Question:
What will happen when different-sized pieces of chocolate are heated?
Will they react the same?

Hypothesis:
I think … _____
_____

Materials:
List the items used.

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Procedure:
1. Measure the following amounts of chocolate and place them on a paper plate.

   Plate 1: 12 g milk chocolate chips

   Plate 2: 12 g milk chocolate frog

   Plate 3: 12 g milk chocolate buttons

2. Place the plates in direct sunlight, or under a heat lamp if sunshine is limited.

3. Use a stopwatch to time how long it takes for the chocolate to change to liquid. If it doesn't melt after 10 minutes then record how soft the chocolate was.

Observations:

Chocolate chips	Chocolate frog	Chocolate buttons
Time taken to melt:	Time taken to melt:	Time taken to melt:
Description:	Description:	Description:

Conclusion and explanation:
_____
_____

Want To Help Save The World? Go Plogging!

Grab some friends and try this new trend for Earth Day.

What is plogging, you ask?

It's a fitness craze that started in Sweden and is spreading across Europe and through North America. Plogging has spread globally as a way to combine exercise and community service.

It's a combination of two words: jogging and the Swedish phrase for pick up, 'plocka upp'. Created by Erik Ahlström in 2016, plogging is an eco-friendly exercise through which people pick up trash while jogging or brisk walking outside. You can also "plog" while walking or hiking. It spread through word of mouth, and in 2017, the #plogging hashtag started showing up on social media. The rest is history.

Plogging is also exercise.

Plogging is a great outdoor workout! It not only involves jogging, but also bending, lunging, squatting and reaching.
A half-hour of jogging plus picking up trash will burn 288 calories for the average person, compared with the 235 burned by jogging alone. A brisk walk will expend about 120. Organizations all across the US are using plogging for both the benefits of exercise, and to raise awareness about plastic and other types of pollution.

YOU are the change.

Plogging burns 50 more calories per half-hour than jogging alone.

Grab a plastic bag and gloves and pick up those empty water bottles, wrappers and boxes. Do you find it gross to pick up other

people's garbage? It is gross! But do you know what's even more gross? The fact that it's sitting there in the first place. And YOU can be the person who takes responsibility for it and places it in the garbage, where it belongs.

It only takes one person to make a difference. Think your efforts will be too miniscule to count towards anything? Wrong! No effort is too small. A group of 10 to 15 people picking up litter for an hour can fill a whole pickup truck! How big do you want to think? If you bring your friends with you and pick up any garbage you see on an hour long walk/run, you'll be doing something awesome for the Earth, enjoying the spring weather AND giving your body exercise it craves.

Division with remainders

1. **Use the multiplication and division facts to solve the number sentences.**

   a $13 \div 4 =$ [ ] remainder [ ]

   b $10 \div 3 =$ [ ] remainder [ ]

   c $13 \div 3 =$ [ ] remainder [ ]

   d $12 \div 5 =$ [ ] remainder [ ]

   e $16 \div 5 =$ [ ] remainder [ ]

2. **Solve the problems. The first one is done for you.**

|	Problem	Mental strategy	Answer
a	Farmer Ted has 28 sheep which are to be put in 3 paddocks. How many in each?	$9 \times 3 = 27$ and 1 more makes 28	9 remainder 1
b	44 marbles were shared among 6 children. How many did each child receive?		[ ] remainder [ ]
c	48 dice were shared among 5 groups in the classroom. How many did each group receive?		[ ] remainder [ ]
d	23 football cards were shared among 4 girls. How many did each girl receive?		[ ] remainder [ ]

3. **Explain the strategy you would use to solve**

   $32 \div 5 =$ [ ]

   _____

   _____

   _____

   _____

Recycle Symbol Art

Decorate the recycling symbol with your own different pictures linked to recycling.

Use the examples to help you.
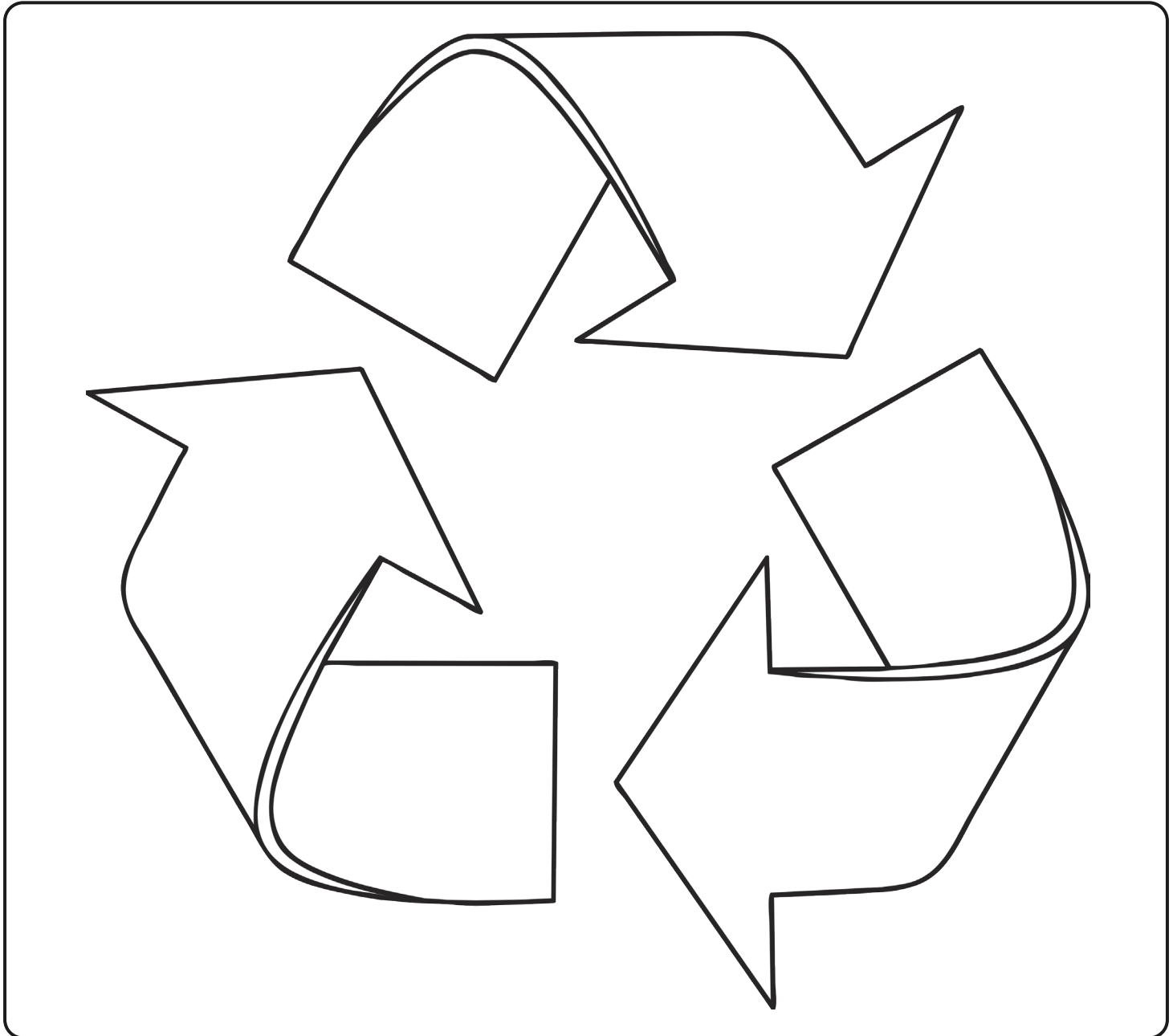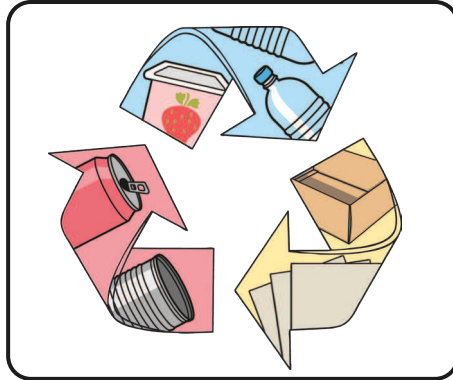
Friday

1. 66 + 16 = ____

2. 86 – 8 = ____

3. 36 + 60 = ____

4. 36 ÷ 4 = ____

5. 0 x 8 = ____

6. Write the smallest number you can using: 8, 7, 3, 7.
_____

7. Complete this counting pattern:
87, 92, 97, 102, ____, ____, ____

8. What is the sum of 2, 2 and 4? ____

9. Share 38 avocados between 2 children. ____
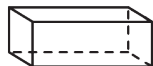
10. 10 cents + 20 cents + $2.00 = ____

11. $1.00 + 5 cents + 50 cents = ____

12. How many days are in August? ____

13. What digital time does the clock show?
_____

14. A rectangular prism has _____
corners.

15. Which star has the lowest chance of
being selected? Black or white? _____

MATHS MENTALS

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