





## Let's start Week 3

# How do we keep children motivated in their learning? Rewards and encouragement!

We want children's motivation for learning to be based on positive experiences. Life-long learners have a desire to keep on learning because they enjoy it – learning has positive associations in their mind. So make liberal use of **positive reinforcement** with your child.

In each summer school booklet we have included an **incentive** chart so that every day you can celebrate the work they have done together. Use stickers or special pens to colour in the icons for each day's work. At the end of the week, they get a **colorful certificate** to complete. Put this evidence of their hard work somewhere they can see it and feel proud of themselves.

The **Mathseeds** online program teaches math concepts in a fun, motivating and engaging way, whilst rewarding children for their efforts. On completion of every lesson and activity, children are rewarded with **golden acorns**. These golden acorns can later be spent in the **Shop** on a variety of items for their **treehouse** or for individualising their personal **avatar**.

Children are also rewarded for their efforts with a cute **pet** that hatches from an acorn at the end of every lesson. The new pet becomes part of their **online collection** and pets can be chosen to be part of the **treehouse**. Each pet is unique and children love watching the funny animation that introduces their new pet.

At the end of each map (every 5 lessons), children complete a multiple-choice quiz to assess what they have learned. If they pass, they are rewarded with a **certificate** that can be printed out as a reminder of their success and achievement.

A lot of the time though, what will really motivate your child is to hear those words of **encouragement** when they feel stuck and **praise** when they do well.

This booklet is the fourth of ten weekly booklets you will receive over the summer break. The **Mathseeds** 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. We know your child will enjoy learning on **Mathseeds** because **Mathseeds** makes learning fun – and that's what summer is all about!



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## Get Ready for Grade 4

#### Week 3

#### Day 1 focus: Place Value

**Online lesson:** Lesson 161 – Partitioning Numbers **Worksheets:** Place Values, Place Value Investigation

Day 2 focus: Time to the Minute

**Online lesson:** Lesson 162 – Time to the Minute **Worksheets:** Time in Minutes, Passing Time

#### Day 3 focus: Equivalent number sentences

**Online lesson:** Lesson 163 – Equivalent Number Sentences **Worksheets:** Equivalent Number Sentences, Equivalence Problems

#### Day 4 focus: Coordinate Grid Maps

**Online lesson:** Lesson 164 – Reading a Map **Worksheets:** Map Reading, Map Problems

#### Day 5 focus: Division

**Online lesson:** Lesson 165 – Division **Worksheets:** Related Division Equations, Division Equation Work

## Week 3 Bonus

Online: Mental Minute + – Badges 97, 98 101, and × ÷ Badges 93, 99, 100, 103, 104 Sheets: Time Problems, Equivalent Question, Puppy-Bot 3000 Hands-on: Battleship Game

## Week 3 • Answers

#### Week 3 Day 1: Place Values

<b>1</b> a 4	<b>b</b> 50	<b>c</b> 300	<b>d</b> 5000	<b>e</b> 70
<b>f</b> 3000	<b>g</b> 8	<b>h</b> 700	i zero	
<b>2 a</b> 9000,	400, 70, 2	<b>b</b> 3000, 3	300, 20, 9	
<b>c</b> 8000,	400, 10, 5	<b>d</b> 9000, 7	700, 30, 7	
<b>3 a</b> 7442	<b>b</b> 9850	<b>c</b> 5320	<b>d</b> 8631	<b>e</b> 2447
<b>f</b> 5089	<b>g</b> 2035	<b>h</b> 1368		

#### Week 3 Day 1: Place Value Investigation

1 a 4321	<b>b</b> 9420	<b>c</b> 8751	<b>d</b> 9653	<b>e</b> 8760
<b>f</b> 9630	<b>g</b> 8541	<b>h</b> 7720		
<b>2 a</b> 1234	<b>b</b> 2049	<b>c</b> 1578	<b>d</b> 3569	<b>e</b> 6078
<b>f</b> 3069	<b>g</b> 1458	<b>h</b> 2077		
<b>3 a</b> 9812	<b>b</b> 9734	<b>c</b> 6530	<b>d</b> 8512	
<b>4 a</b> 2089	<b>b</b> 5665	<b>c</b> 1367	<b>d</b> 1483	

- 5 Parent to check
- 6 Zero represents a place value of nothing so it cannot go at the front of a number – if there are no thousands we don't put a digit there at all.

#### Week 3 Day 2: Time in Minutes

- **a** one minute past five
  - **b** thirty-eight past eleven or twenty-one to twelve
  - **c** thirteen past eight
  - d twenty-seven past nine
  - e forty-two past three or eighteen to four
  - f fifty-nine past seven or one minute to eight
- 2 Parent to check

#### Week 3 Day 2: Passing Time

- 1 a 2 hours, 28 minutes b 9 hours, 7 minutes
- c 2 hours, 38 minutes d 3 hours, 24 minutes
- 2 a 1 hour, 26 minutes b 6 hours, 25 minutes
- c 49 minutes d 3 hours, 43 minutes

#### Week 3 Day 3: Equivalent Number Sentences

1 a 🗸	b 🗙	c 🗙	d 🗸	e 🗸
f×	<b>2 a</b> 5	<b>b</b> 1	<b>c</b> 30	<b>d</b> 20
<b>e</b> 93	<b>f</b> 30	<b>g</b> 32	<b>h</b> 33	
3, 4 Paren	t to check			

#### Week 3 Day 3: Equivalence Problems

- **1 a** 10 **b** Max 16, Bella 9 **c** Lim 15, Yee 7
- **2 a** 9 4 = 3 + 2
  - **b** 12 minutes, 17 + 8 = 13 + 12

#### Week 3 Day 4: Map Reading

1 a A5	<b>b</b> D3	<b>c</b> C1	<b>d</b> F2	<b>e</b> A3	<b>f</b> C4	
2 a flam	ingo	<b>b</b> ticket	booth	<b>c</b> squ	virrel	<b>d</b> gift shop
e parro	ot	f eleph	ant			
3 F1 & F6						
4 D1 & A	6					
5 E1 & E6	)					

- 6 A1 & A2
- 7 (b) a path

#### Week 3 Day 4: Map Problems

- Parent to check
- **2**  $A4 \rightarrow D4 \rightarrow D2 \rightarrow F2 \rightarrow F1 \rightarrow C1 \rightarrow C3 \rightarrow A3$
- 3 a North b 16 c 1600 ft d B2 e Parent to check

#### Week 3 Day 5: Related Division Equations

<b>1 a</b> 6	<b>b</b> 4	<b>c</b> 8	<b>d</b> 10	<b>e</b> 8
<b>f</b> 7	<b>g</b> 7			
<b>2 a</b> 18 ÷ 6	5 = 3	<b>b</b> 12 ÷ ·	4 = 3	
<b>c</b> 16 ÷ 8	3 = 2	<b>d</b> 20 ÷	10 = 2	
<b>e</b> 24 ÷ 8	8 = 3	<b>f</b> 28 ÷ 7	7 = 4	
<b>g</b> 14 ÷ 7	′ = 2			

#### Week 3 Day 6: Division Equation Work

1 a 2	<b>b</b> 7	<b>c</b> 5	<b>d</b> 6	<b>e</b> 6	<b>f</b> 7
<b>g</b> 3	<b>h</b> 3	<b>i</b> 4	<b>j</b> 4	<b>k</b> 7	<b>I</b> 5
2 a 🗸	b 🗙	c 🗸	d 🗙	e 🗸	
f×	g 🗙	h 🗸	i X	i 🗸	
k 🗙	ا√ ا				
<b>3 a</b> 5, 20 -	÷ 5 = 4	<b>b</b> 4, 36	÷4 = 9		
<b>c</b> 9, 63 -	÷9=7	<b>d</b> 8, 48	÷ 8 = 6		
<b>e</b> 9, 27 ÷	÷ 3 = 9	<b>f</b> 6, 54 -	÷9=6		
<b>g</b> 10, 40	÷ 4 = 10	<b>h</b> 9, 72	÷ 8 = 9		

#### Week 3 Bonus: Time Problems

- 1 a, b Parent to check
  - c Roller coaster 3 mins, Carousel 14 mins, Dodgem cars 20 mins
- 2 a 9 mins
  - **b** Walked from one ride to the next, joined the line, and paid to ride.
- 3 Parent to check

#### Week 3 Bonus: Equivalent Question

- 1 **a, b** Parent to check
  - **c** 0 + 16, 1 + 15, 2 + 14, 3 + 13, 4 + 12, 5 + 11, 6 + 10, 7 + 9, 8 + 8, 9 + 7, 10 + 6, 11 + 5, 12 + 4, 13 + 3, 14 + 2, 15 + 1, 16 + 0
  - d Yes e Parent to check]
- **2 a** 16 0, 17 1, 18 2, 19 3, 20 4, 21 5, 22 6, 23 7, 24 8, 25 9, 26 10 and so on

**b** No

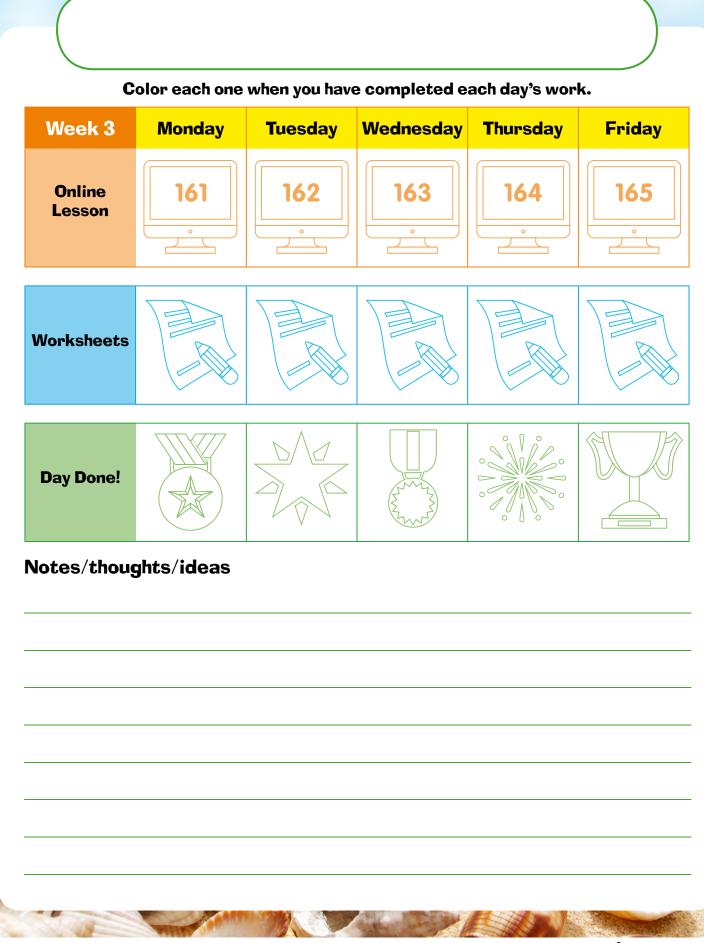
- **c** There were only 17 ways to add, but there are lots of ways to subtract. The list could keep going forever.
- 3 Parent to check

#### Week 3 Bonus: Puppy-Bot 3000

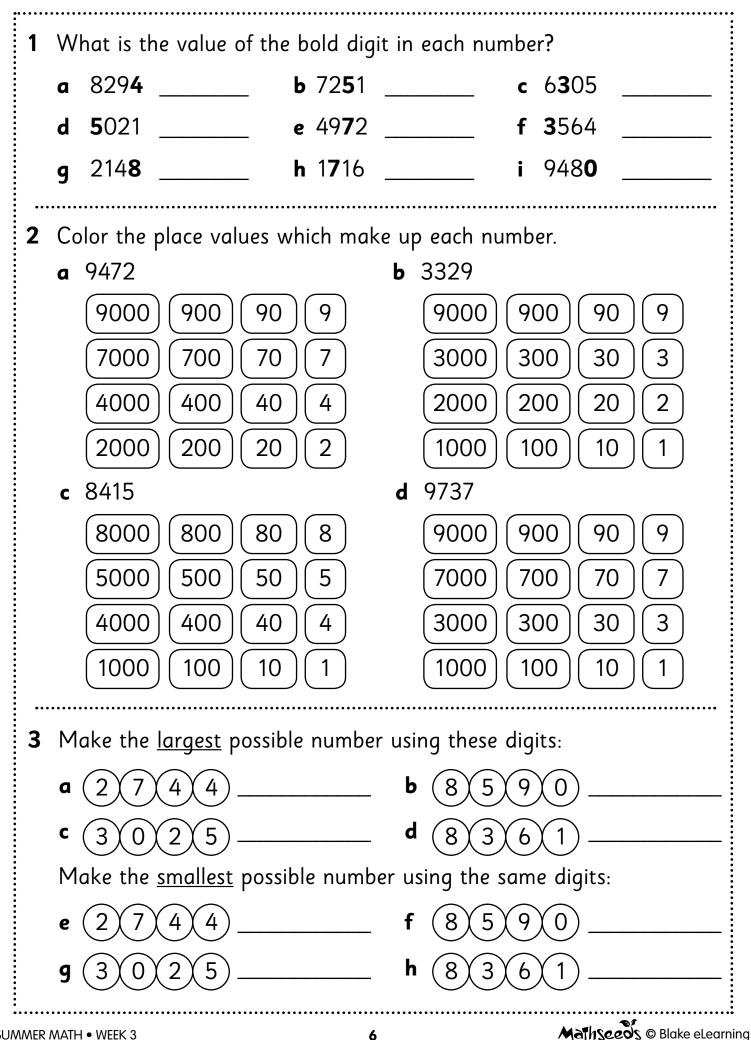
- a, b Parent to check c (E, 5)
   d (C,1)
  - e Parent to check
- 2 Parent to check
- 3 a 5 squares b Parent to check c (B,2) (C,4) (D,4)
   d They are sand and water. I didn't want Puppy-Bot to get stuck or wet.

## Week 3

## Incentive chart for:



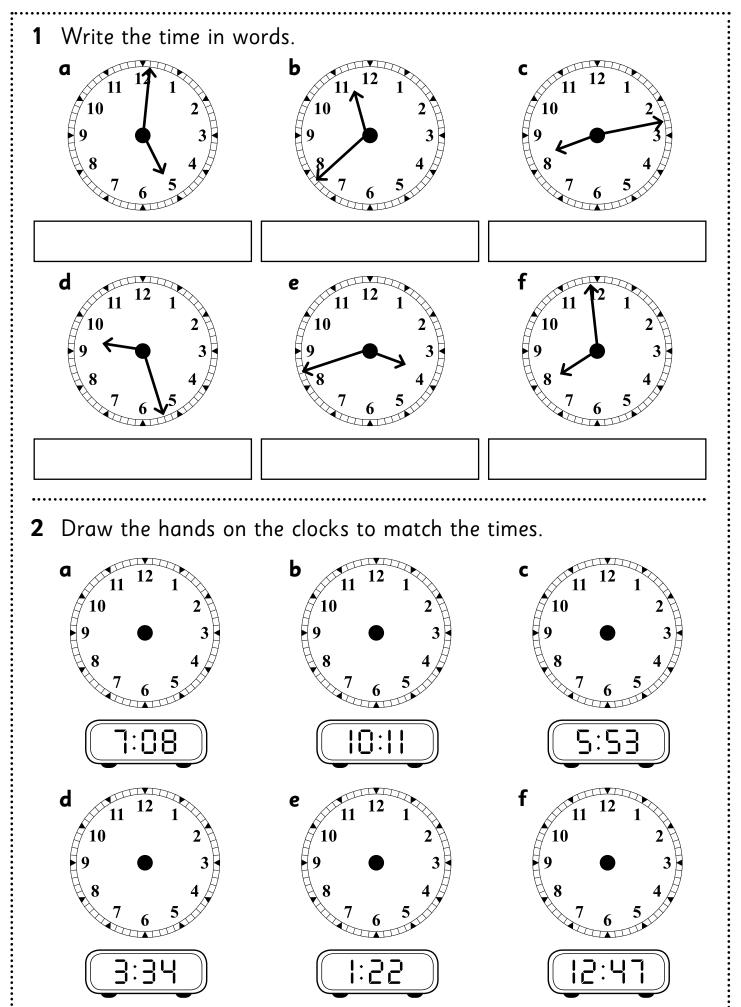
PLACE VALUES



#### PLACE VALUE INVESTIGATION

		<ol> <li>Make the <u>biggest</u> number possible.</li> </ol>	2	Make the <u>smallest</u> number possible using all 4 digits.
a	1234			
b	0942			
С	8571			
d	6935			
e	8067			
f	9630			
g	1845			
h	7207			
••••	a 9281 c 3506	<u>ggest even number</u> po 	b d	4739 2815
	<b>a</b> 9280		Ь	6565
				4 1 8 3
 5 	think about	u make these number	s? Wh	at did you need to
6	What is diff	erent about a zero co	mpare	d to other digits?

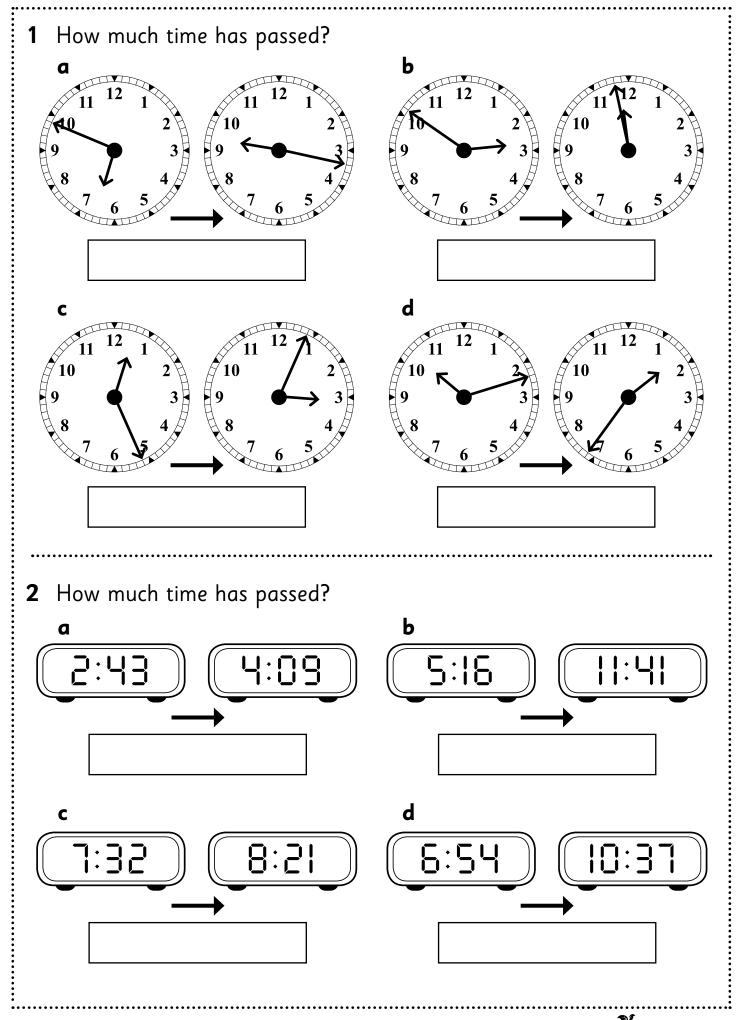
#### TIME IN MINUTES



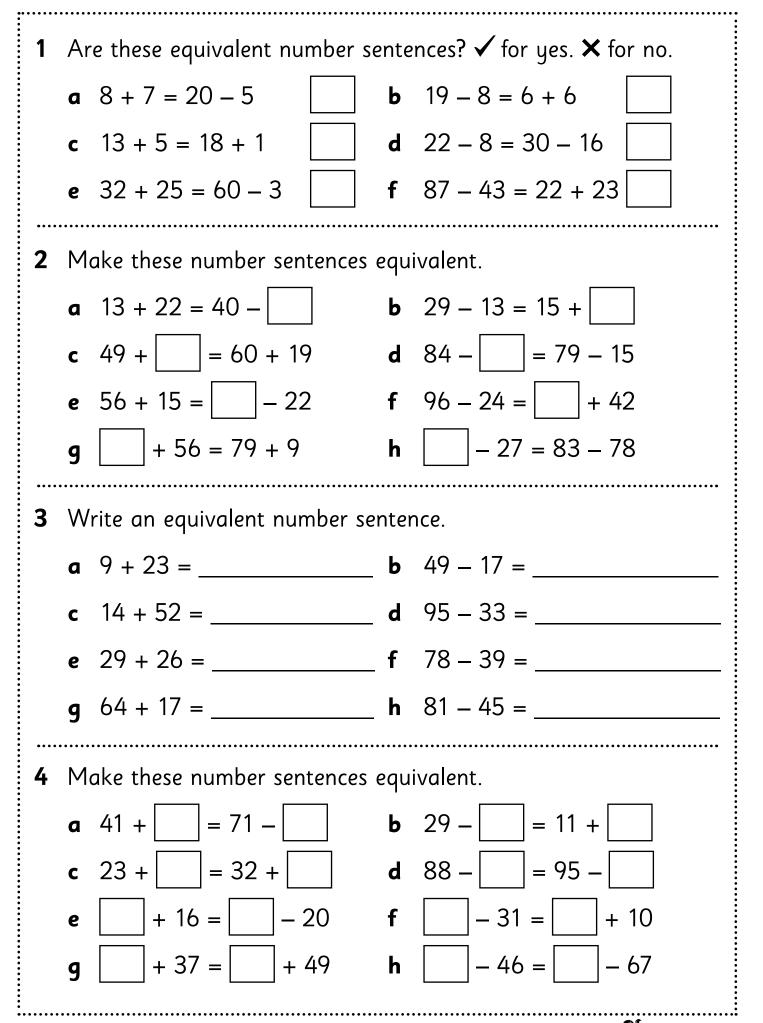
SUMMER MATH • WEEK 3

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**PASSING TIME** 



#### EQUIVALENT NUMBER SENTENCES

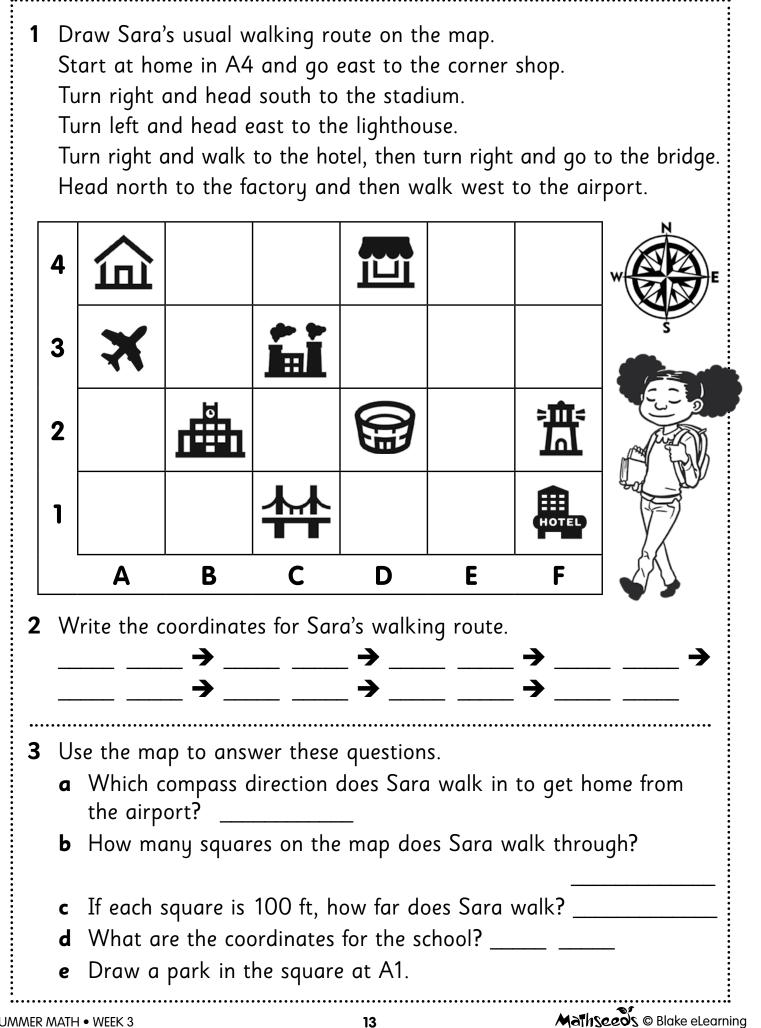


## EQUIVALENCE PROBLEMS

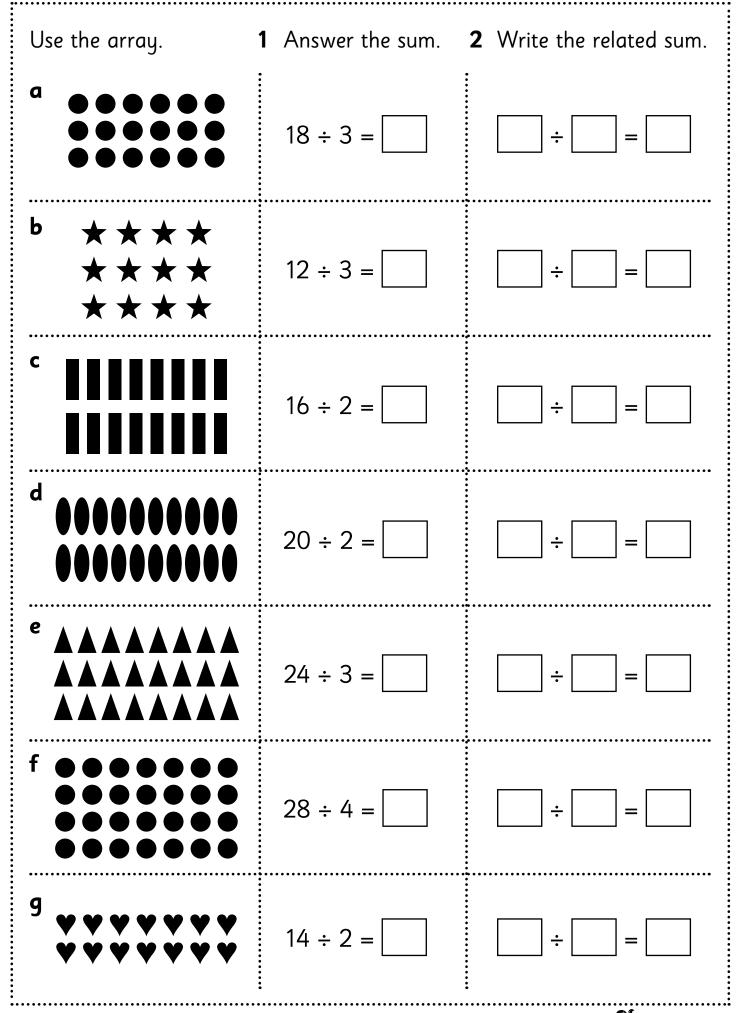
<b>1</b> C	omplete the equivalent equations to find the answers.							
a	Gina and Maria picked the same number of pieces of fruit. Gina picked five apples and seven oranges. Maria picked two apples and some oranges.							
	How many oranges did Maria pick?							
Ь	Max and Bella each get 30 minutes of screen time a day. Today Max had 14 minutes in the morning and Bella had 21. How much time does each child have in the afternoon?							
	14 + = 21 + Max Bella							
c	Lim had 40 chocolates. Yee had 32. They each ate some of their chocolates. Then they both had 25 left. How many chocolates did they each eat?							
	40 – 🔄 = 32 – Lim Yee							
<b>2</b> Fi	nd the equivalent number sentences.							
a	a Roshi had nine cards and Adit had three. They were supposed to both have five cards. Write equivalent number sentences to show how they end up with five cards each.							
b	Abdul and Issy have two jobs each, taking the same amount of time. Abdul vacuums for 17 minutes and dusts for 8 minutes. Issy mops for 13 minutes and cleans the sinks. How long does Issy take to clean the sinks?minutes							
	=							

6       Image: Amage: Ama			1								
4       2       0		6	24/7			<b>ر</b> ک	Y				
3       4       10       10       10       10         2       10       10       10       10       10       10         1       10       10       10       10       10       10         1       10       10       10       10       10       10         1       10       10       10       10       10       10         1       10       10       10       10       10       10         1       10       10       10       10       10       10         1       Write the coordinates for these items.       10       10       10       10         2       What is at these coordinates?       4       6       6       10       10         2       What is at these coordinates?       6       6       10       10       10         2       What is at these coordinates?       6       6       10       10       10       10         3       Where are the restrooms located?       8       8       10       10       10       10       10       10       10       10       10       10       10       10       10       10		5						Bird			
2 $A$ $B$ $C$ $D$ $E$ $F$ 1 $A$ $B$ $C$ $D$ $E$ $F$ 1 $W$ rite the coordinates for these items. $a$ monkey $b$ $w$ $w$ $c$ fox $d$ $b$ $b$ $w$ $w$ $w$ $c$ fox $d$ $b$ $b$ $b$ $b$ $b$ $c$ fox $d$ $b$ $b$ $b$ $b$ $b$ $c$ $C$ $d$ $d$ $b$ $b$ $b$ $b$ $c$ $C$ $d$ $d$ $b$ $b$ $b$ $b$ $e$ $B$ $f$ $f$ $f$ $f$ $f$ $f$ $f$ <		4	SA-			Brief		Bin			
1       Image: Second state of the second stat		3	-		S.	NE SI		2.42			
1       Write the coordinates for these items.         a       monkey       b       owl         c       fox       d       bear         e       lion       f       koala         2       What is at these coordinates?       a       A4       b       B6         a       A4       b       B6       d       D6		2	A.C.					E TOT X			
1       Write the coordinates for these items.         a       monkey       b       owl         c       fox       d       bear         e       lion       f       koala         2       What is at these coordinates?       a       A4       b       B6         a       A4       b       B6       d       D6		1	A.C.		IS A	24/7	۳ſ				
a monkey        b owl          c fox        d bear          e lion        f koala          2 What is at these coordinates?        b B6          a A4        b B6          c C3        d D6			Α	В	C	D	Ε	F			
a A4       b B6         c C3       d D6         e B1       f F4-5         3 Where are the restrooms located?       &	С	fox				<b>d</b> bear					
c       C3        d       D6         e       B1        f       F4-5          3       Where are the restrooms located?      &											
<ul> <li>e B1 f F4-5</li> <li>3 Where are the restrooms located? &amp;</li> </ul>											
<b>3</b> Where are the restrooms located?&						_					
	e Di i i t+J										
<b>4</b> Where can you go for first aid? &	<b>3</b> Where are the restrooms located? &										
<b>J J</b>											
<b>5</b> Where can you go to eat?&	5 W										
6 Where are the hippos?&	<b>6</b> W	here	are the h	ippos?			&_				
<b>7</b> What are the empty squares for?											
(a) more animals (b) a path (c) it's a mistake	(a)	moi	re animals	s (b) c	a path	(c) it's a	mistake				

MAP PROBLEMS

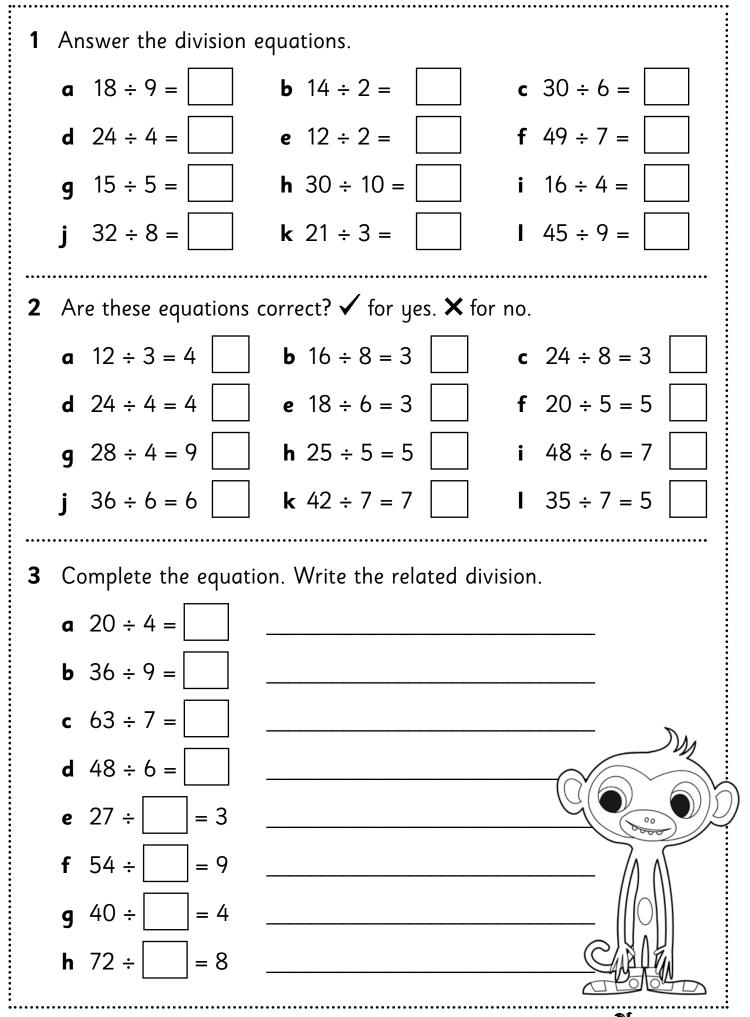


#### **RELATED DIVISION EQUATIONS**



#### DIVISION EQUATION WORK

#### WEEK 3 • DAY 5



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**TIME PROBLEMS** .....

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## WEEK 3 • BONUS

<b>a</b> <u>Underline</u> the question. <b>b</b> Circle the facts.								
Here is the timetable for Waldo and Dizzy's morning.								
<b>c</b> How long was each ride?								
Ri	de	Start time	End time	Time taken				
Roller o	coaster	11:05 a.m.	11:08 a.m.					
Carc	ousel	11:17 a.m.	11:31 a.m.					
Dodger	m Cars	11:40 a.m.	12:00 p.m.					
How lon What do	g is the b you th r own ti							
How lon What do Create you to 3:00 p.n	g is the b you th r own ti	gap between t hink Waldo and metable for Diz	he rides? Dizzy did betwo zy and Waldo fr	rom 12:00 p.n				
How lon What do	g is the b you th r own ti	gap between t nink Waldo and	he rides? Dizzy did betwo					
How lon What do Create you to 3:00 p.n	g is the b you th r own ti	gap between t hink Waldo and metable for Diz	he rides? Dizzy did betwo zy and Waldo fr	rom 12:00 p.n				
How lon What do Create you o 3:00 p.n	g is the b you th r own ti	gap between t hink Waldo and metable for Diz	he rides? Dizzy did betwo zy and Waldo fr	rom 12:00 p.n				
How lon What do Create you o 3:00 p.n	g is the b you th r own ti	gap between t hink Waldo and metable for Diz	he rides? Dizzy did betwo zy and Waldo fr	rom 12:00 p.n				
How lon What do Create you o 3:00 p.n	g is the b you th r own ti	gap between t hink Waldo and metable for Diz	he rides? Dizzy did betwo zy and Waldo fr	rom 12:00 p.n				
How lon What do Create you o 3:00 p.m	g is the b you th r own ti	gap between t hink Waldo and metable for Diz	he rides? Dizzy did betwo zy and Waldo fr	rom 12:00 p.n				

## **EQUIVALENT QUESTION**

1	Sh Da	by writes this number sentence: $7 + 9 =$ ne asks Doc to write an equivalent number sentence. to says, "There are too many to choose from!" ow many equivalent number sentences are there?							
	<b>a</b> <u>Underline</u> the question. <b>b</b> Circle the facts.								
• • • • • •	<ul> <li>Write as many equivalent <u>addition</u> number sentences as you can.</li> </ul>								
•		7 + 9 =							
• • • • • • • •	d	Is it possible to find <u>every</u> addition sentence that is equivalent to 7 + 9?							
	е	Have you found <u>every</u> addition number sentence that is equivalent to 7 + 9?							
2	a	Write as many equivalent <u>subtraction</u> number sentences as you can.							
•		7 + 9 =							
	b	Is it possible to find <u>every</u> subtraction sentence that is equivalent to $7 + 9$ ?							
• • • • • • • • • • • • •	c	Have you found <u>every</u> subtraction number sentence that is equivalent to 7 + 9?							
3		an you write your own heads and legs problem? e if anyone in your family can find the answer.							

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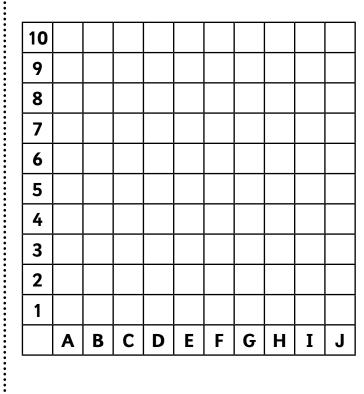
#### **PUPPY-BOT 3000**

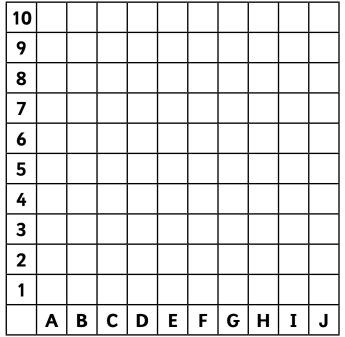
You can pro using coord	Puppy-Bot 3000. ogram it to move linates. Program to get to the gate	5			<pre>Po </pre>	۲ \	
	o. Can you find two	3					
<b>a</b> <u>Underline</u>	<u>e</u> the question.	2		Sand box	•••••		
<b>b</b> Circle the	e facts.	1			<u> </u>		
<b>c</b> Where is (	the gate? _,)		Α	В	<b>C</b>	D	E
<b>d</b> Where is (	Puppy-Bot? _,) h has been drawn for			Pupp			
<b>2</b> Now fill in done for ye	the table with the co ou.	ordina	tes. T	he firs	t path	has b	been
Path 1 (C	C,1) (C,2) (C,3) (B,3) (	(B,4) (	B,5) ((	C,5) ([	),5) (E	,5)	
<b>Path 2</b> (C	(C,1)						
Path 3 (C	<b>Path 3</b> (C, 1)						
3 a How long is the shortest path? b How long is the longest path? c Which squares did you avoid? d Why?							

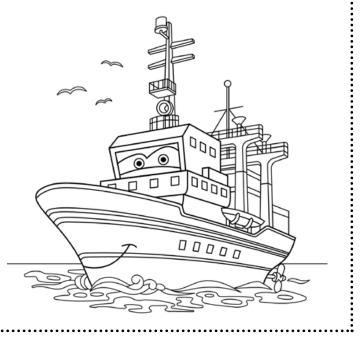
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You will need a partner, 2 coordinate grids each, and 2 pencils.

- 1 Hide your grids from each other. Color a series of squares on one of your grids to make 'battleships' of 2, 3, 4 and 5 squares. The other grid will be for tracking your opponent's ships.
- **2** Player A says a pair of grid coordinates, e.g., F5. If Player B has that square colored in as part of one of their ships it is a 'hit'. Both players should put a tick on that square. If the square is not a hit, the players should put a cross on it so they know it has been asked already.
- 3 Now it is Player B's turn to say a pair of coordinates.Keep taking turns.
- When someone has hit all the other player's ships a 2, a 3, a 4, and a 5 square ship they win.









# Great work!

## You can now start Week 4!

