Maths Planning and Ideas



Week Commencing: 11th May 2020

Year Group: 4

Mathematical Focus: Perimeter and Area

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Multiplying and Dividing Problem Solving	Perimeter of a Rectangle	Perimeter of Rectilinear Shapes	Area – Counting Squares	Friday Maths Challenge
Activity	Starter:	Starter:	Starter:	Starter:	Starter:
	Times Table Rockstar	Times Table Rockstar	Times Table Rockstar	Times Table Rockstar	Times Table Rockstar
	Battle of the Bands and Garage challenges have been set for Y4 children.	Battle of the Bands and Garage challenges have been set for Y4 children.	Battle of the Bands and Garage challenges have been set for Y4 children.	Battle of the Bands and Garage challenges have been set for Y4 children.	Battle of the Bands and Garage challenges have been set for Y4 children.
	Main: White Rose Maths - Watch Summer Week 4 Lesson I https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Summer Week 4 Lesson 2 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Summer Week 4 Lesson 3 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Summer Week 4 Lesson 4 https://whiterosemaths.com/h omelearning/year-4/	Main: White Rose Maths - Watch Summer Week 4 Lesson 5 – Daily Challenge https://whiterosemaths.com/h
	You might want to pause it and make notes. Or even rewind and watch bits again.	You might want to pause it and make notes. Or even rewind and watch bits again.	You might want to pause it and make notes. Or even rewind and watch bits again.	You might want to pause it and make notes. Or even rewind and watch bits again.	omelearning/year-4/ Good luck!
	Independent:	Independent:	Independent:	Independent:	
	The questions below the plan can be completed by children independently.	The questions below the plan can be completed by children independently.	The questions below the plan can be completed by children independently.	The questions below the plan can be completed by children independently.	

Answers can be found here:				
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on-I-Answers-	on-2-Answers-Perimeter-of-	on-3-Answers-Perimeter-of-	on-4-Answers-Counting-	
Correspondence-problems-	a-rectangle-2019.pdf	rectilinear-shapes-2019.pdf	squares-2019.pdf	
2019.pdf				
No peeking until after you have had a go.	No peeking until after you have had a go.	No peeking until after you have had a go.	No peeking until after you have had a go.	
, ,	, ,	have had a go.	have had a go.	

LC: Can you solve multiplication and division problems?

Correspondence problems						
A canteen 3 sandwich	has 2 types of bread n fillings.	and a choice of				
	Bread	Fillings				
	white	cheese				
	brown	tuna				
		chicken				
a) List the	different sandwiches	that can be made.				
One ha	s been done for you.					
cheese	on white					
b) Comple	te the multiplication	to represent the num	ber of			
differer	nt combinations of br	ead and filling.				
×	=					
Comple	te the sentence.					
There a	re combinations	š.				

c) How many combinations would there be if there were 4

choices of sandwich filling?

2) A	pizzeria	offers	a	choice	of	bases	and	topping

Pizza base	Toppings
deep pan	mushrooms
thin	chicken
	onion
	peppers
	sweetcorn

Complete the multiplication to work out how many different combinations of pizza there are.

×		=	
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Complete the sentence.

There are		combinations	of	pizza
	1		٠.	P



a)

He buys a ticket that allows him to choose 1 ride and 1 game at the fair.

Rides Big dipper Dodgems Carousel

) C

Games
Hook-a-duck
Basketball
Coconut shy
Lucky dip
Test-your-strength

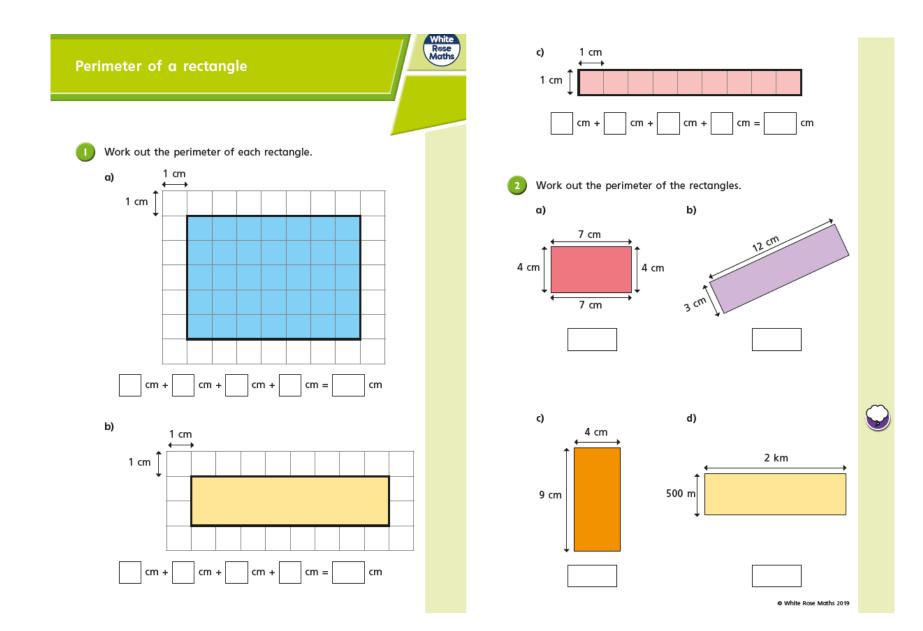
There are 8 different possible choices of rides and games.



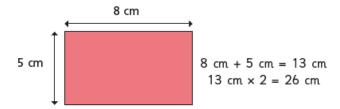
Is Mo correct? _____

Explain your answer.	5	Here are the activity	choices available at S	Summer Camp.	
		Sport	Arts and crafts	Outward bound	
		football	painting	wall climbing	
		tennis	pottery	kayaking	
b) List all the different choices Mo can make.		golf	mosaics	abseiling	
			origami		
		Each child is allowed 1 sport, 1 arts and cr			
		a) How many activity	y combinations are t	here?	
Mo can make different choices.					
		b) Due to a flooded	pitch, football is can	celled.	
		How many combin	nations are now poss	ible?	
Aisha has 3 headbands and 5 hair slides.					
Kim has 2 headbands and 6 hair slides.					
Who has more choices of combinations for wearing one headband and 1 slide?		There are	combinations.		
	6	Tom and Esther are b	uilding a snowman.		
		They have a choice o	of 5 hats, 4 scarves ar	nd 2 pairs of gloves to	
		dress their snowman.			
		How many different	combinations are po	ssible?	
has more choices.		x x =	=		
Talk about it with a partner.		There are com	nbinations.		
	2 /2 /				

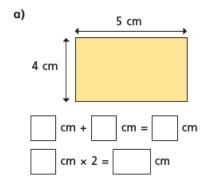
LC: Can you calculate the perimeter of a rectangle?

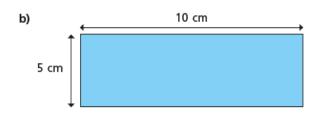


Tommy is working out the perimeter of some rectangles.

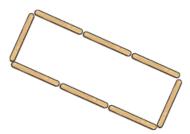


Use Tommy's method to find the perimeter of these rectangles.



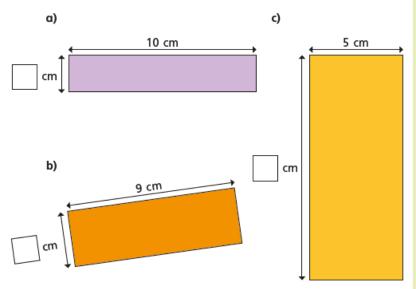


Each lolly stick is 8 cm long.
Find the perimeter of the shape.



Each of these rectangles has a perimeter of 24 cm.

Work out the missing lengths and label the diagrams.



What do you notice?

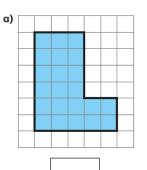
Find any other rectangles that have the same perimeter.

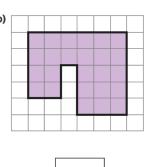




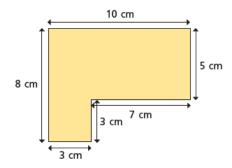
LC: Can you calculate the perimeter of rectilinear shapes?

Perimeter of rectilinear shapes The length of each square on the grid is 1 cm. Work out the perimeter of the shapes.

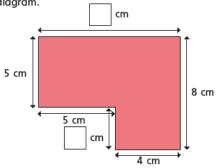




2) Work out the perimeter of the shape.

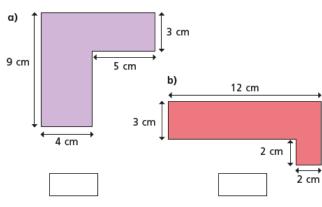


a) Work out the missing lengths and label them on the diagram.



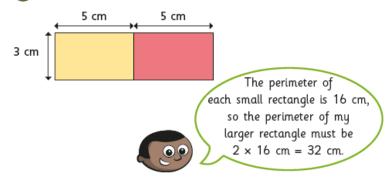
b) What is the perimeter of the shape?

Work out the perimeter of each shape.



• White Rose Maths 2019

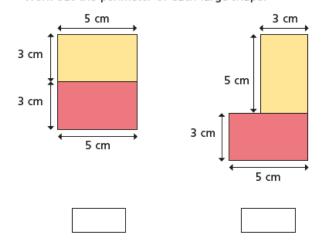
Mo puts two 5 cm by 3 cm rectangles next to each other.



a) Is Mo correct? _____

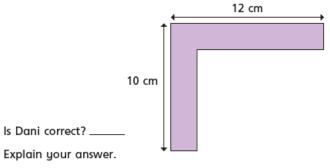
Work out the perimeter of the larger rectangle to check your answer.

b) Mo puts the rectangles together in different ways.Work out the perimeter of each large shape.



Dani thinks there isn't enough information to work out the perimeter of the shape.

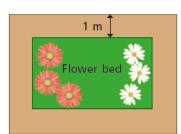






A rectangular flower bed is 5 m long and 3 m wide.

The path around the flower bed is 1 m wide.







b) What is the perimeter of the outside of the path?



LC: Can you calculate area by counting squares?

Cou	unting squares	White Rese Maths
•	Count the squares in each shape to find the area. A	
	The area is squares.	
	B C	
	The area is squares. The area is squares.	
	Which shape has the greatest area?	
2	What is the area of the shaded part of the shape?	
	The area is squares.	

Here is a kitchen tile.
a) What area of the tile is blue?
b) What area of the tile is white?
c) What is the total area of the tile?
These two shapes are made up of squares of the same size.
These two shapes
have the same area.
£ 5 2
Jack The Control of the Rosie
The first snape is bigger as it
takes up more space.
·
Who is correct?
Explain how you know.

6 Here is a rectangle.



a) The rectangle has rows and columns.

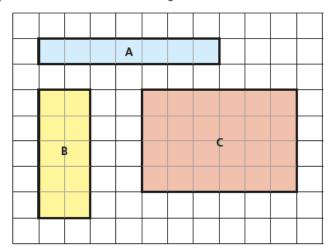
b) What is the area of the rectangle?

squares

c) How did you work out the area?



Find the area of each rectangle.



A =		squares	B =		squares	C =		square
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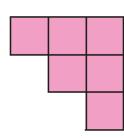
Nijah and Eva are making shapes.

They each use 6 squares.

Nijah's shape



Eva's shape

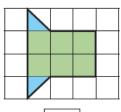


The area of Nijah's shape is equal to the area of Eva's shape.

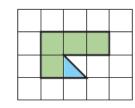
Is this true or false? _____

How do you know?

8	What	is	the	area	of	each	shape







area = squares



Where can I complete further work?

<u>Twinkl</u> – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, PowerPoints and interactive games to support all areas of learning.

<u>Classroom Secrets</u> – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

<u>Primary Stars</u> – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

<u>Top Marks</u> – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.