Home Learning MATHS week 13

Monday - Week 10 lesson 1

Tuesday - Week 10 lesson 2

Wednesday - Week 10 lesson 3

Thursday - Week 10 lesson 4

Friday - Catch up day

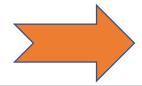
Summer Term - Week 10 (w/c 29th June)

This is where this weeks videos will be

Summer Term - Week 9 (w/c 22nd June) +

Summer Term - Week 8 (w/c 15th June) +

You will need to use this link to access the videos



https://whiterosemaths.com/homelearning/year-6/

Home Learning MATHS week 12

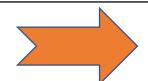
This week, you will not be able to access the

worksheets online.

I have included them as a PDF file and are

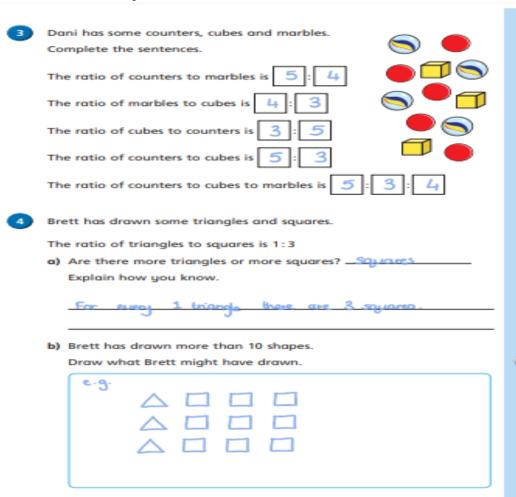
accessible through the school website.

You will need to use this link to access the videos



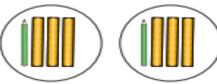
Answers - Monday

Introducing the ratio symbol The ratios show shaded parts to non-shaded parts. Match the ratios, statements and bar models. 2:3 five to two 5:2 three to two 2:5 two to three two to five The ratio of purple to yellow is 5:4 Alex Mo Who is correct? Mo Explain your answer. There are 5 purple and 4 youlows



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a) What is the ratio of pencils to rulers?

1:3

b) Here are some more rulers and pencils.









The ratio of pencils to rulers is the same as in part a).

Ron

Ron is wrong because there are more pencils and more rulers.



Dora

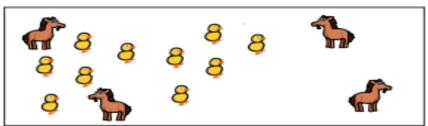
Who is correct? ______

Explain your answer.

There are still 3 rules for every 1 process.

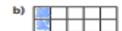
The ratio of horses to chickens in a field is 2:5 Here are the horses. Draw the chickens.





Shade squares so that the ratio of shaded to non-shaded squares is 1:4

	_	_	_	_	$\overline{}$
a)	100				
		$\overline{}$	$\overline{}$	$\overline{}$	\mathbf{L}





B A box contains dark, white and milk chocolates.



 $\frac{1}{2}$ of the box are milk chocolates.

The rest are white chocolates.

What does each ratio represent?

a) 1:3

white to dark

b) 4:1

mille to white

c) 3:5

dark to not dark



Tuesday

Calculating ratio



Eva is baking cakes and cookies.

For every 1 cake, she will bake 2 cookies.



a) If Eva bakes 3 cakes, how many cookies will she bake?



b) If Eva bakes 10 cookies, how many cakes will she bake?



2) The ratio of red to yellow counters is 2:3

There are 20 counters in total.

How many counters of each colour are there?

You can colour the counters to help you.



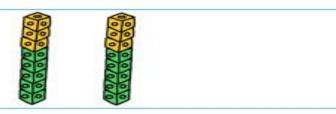
red 8



3 Tom has 5 green cubes for every 3 yellow cubes.

He has 16 cubes in total.

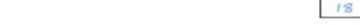
Draw a diagram to represent this.



Esther is building a tower of cubes.

The ratio of red to yellow cubes is 3:1

The tower has 6 yellow cubes. How many red cubes are there?



Nijah plays 21 games of chess.

For every 2 games she wins, she loses 5 games.

How many more games does she lose than win?





a) Huan is making a drink by mixing 1 part juice with 5 parts water.

Complete the table to show the amounts he would need to use.

Juice	Water		
1 litre	5 litres		
2 litres	10 litres		
4 litres	20 litres		
100 ml	500 mL		
200 ml	1 litre		
300 ml	. 1.5 lites		
6 libres	30 litres		
150 mL	750 ml		

b) Huan makes 1 litre 500 ml of drink in total.
How much juice and water does he need to use?

juice 250 ml

water 1,250 mL

A group of students study French or German in the ratio 3:7



b) Draw a diagram to represent this.



c) There are 80 students in total.
How many more students study German than French?

32

B Describe a situation for each bar model. Various answers.



blue 28

green blue

c) green blue 28

Compare answers with a partner.

What is the same and what is different?





Wednesday

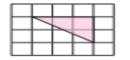
Using scale factors a) Here is a rectangle. Draw another rectangle where each side is twice as big. b) Here is a square. Draw another square where each side is 4 times as big.

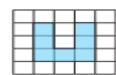


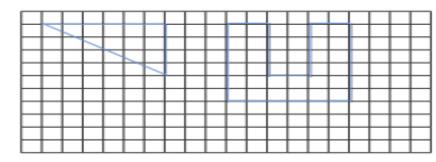
 a) Explain what it means for a shape to be enlarged by a scale factor of 2

All of the side lengths are twice as big

b) Enlarge the shapes by a scale factor of 2









A shape in which each side has tripled in size has been enlarged by a scale factor of 3





- a) Measure the side lengths of the rectangle and label them on the diagram.
- b) Enlarge the rectangle by a scale factor of 3 and label the side lengths.

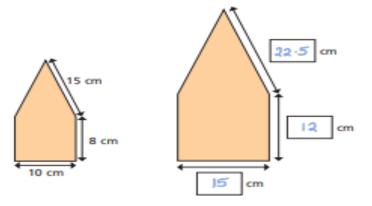


5 The sides of the rectangle are increased by a scale factor of 2 What is the perimeter of the new shape?



32 cm

The shape has been enlarged by a scale factor of 1½
Fill in the dimensions of the new shape.

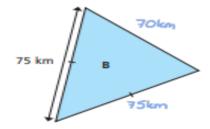


7 Triangle A has been enlarged by a scale factor of 5 to make triangle B.



Find the perimeter of each triangle.







Thursday

Ratio and proportion problems



- Whitney buys 6 cans of lemonade for £3
 - a) How much do 12 cans cost?





b) How much do 3 cans cost?





c) How much do 15 cans cost?



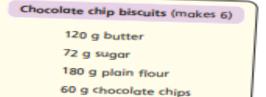
- The ratio of red to green grapes in a bowl is 3:1
 - a) Explain what this means.



b) There are 12 more red grapes than green grapes.
What is the total number of grapes in the bowl?

Amir is making some chocolate chip biscuits.

He has this list of ingredients to make 6 biscuits.



a) How much of each ingredient does Amir need to make 2 biscuits?



b) How much of each ingredient does Amir need to make 10 biscuits?

c) Amir has 240 g of chocolate chips.

What is the maximum number of biscuits he can make?





For every three 20p coins he has one 50p coin.

There are 12 coins in the jar in total.

How much money is in the jar?

£3-30

A drink is made using 3 parts orange juice to 2 parts lemonade.



How much orange juice does she need?

720 m

Two shops sell the same cereal but in different-sized boxes.

Shop A 500 g of cornflakes £2.10 Shop B 750 g of cornflakes £3.30

Which shop is better value for money?

Shop ____A

Explain why.



Dora draws two similar rectangles.

My larger rectangle is 4 times the size of the smaller one.



The perimeter of the larger rectangle is 48 cm.



What is the largest possible area for the small rectangle?



- 8 Aisha has two boxes of sweets.
 - . In the first box, the ratio of red sweets to green sweets is 3:1
 - In the second box, for every 2 orange sweets there are 3 yellow sweets.
 - There is the same number of sweets in each box.
 - There are 12 yellow sweets in the second box.

How many sweets are in the first box?





