Year 5/6 Maths W/C 1st June

	Date		Monday 1st June
	Subject/s		Maths
Lea	ming Objective		To recall and use multiplication and division facts
1)	7 x 2	=	21) 8 x 6 =
2)	3 x 8	=	22) 7 x 9 =
3)	4 x 6	=	23) 6 x 7 =
4)	2 x 9	=	24) 8 x 8 =
5)	6 x 4	=	25) 6 x 3 =
6)	8 x 4	=	26) 9 x 6 =
7)	7 x 5	=	27) $7 \times 5 = $
8)	9 x 10	=	28) $8 \times 9 = $
9)	6 x 6	=	29) 10 x 7 =
1)	6 x	= 18	21) x 7 = 49
2)	8 x	= 16	22) 8 x = 72
3)	x 7	= 7	23) <u> </u>
4)	x 9	= 45	24) 9 x = 45
5)	7 x	= 21	25) <u> </u>
6)	x 6	= 36	26) 6 x = 36
7)	x 8	= 40	27) 8 x = 64
8)	9 x	= 90	28) <u>x</u> 6 = 42
9)	x 8	= 32	29) <u> </u>
10)	x 6	= 24	30) 7 x = 56
11)	7 x	= 63	31) <u> </u>
12)	x 6	= 0	32) 6 x = 60
13)	x 8	= 80	33) 9 x = 45
14)	9 x	= 54	34) <u> </u>
15)	6 x	= 42	35) <u> </u>
16)	x 8	= 56	36) 9 x = 81
17)	x 9	= 81	37) <u> </u>
18)	6 x	= 30	38) <u> </u>
19)	8 x	= 48	39) 7 x = 49
20)	x 9	= 18	40) <u> </u>

Date	<u>01.06.20</u>								
Subject/s	Maths								
Learning Objective									
To simplify ratio									
		SA	TA						
		S	Å æ						
Success Criteria	I know ratio compares two or more objects that increase together								
	for every								
	I know simplifying ratio doesn't change the amount								
Support	Independent Adult Support () Group Work		μ <u> </u>						
Pre-task:									
Rearrange the same number of diagram to help you complete t For every, there are For every 8 💝, there are For every 1 💓 , there are	cubes as there are in the he sentences.								
Complete the sentences to	compare the apples and oranges.								
For every 6 apples there are	e oranges.								
of the fruit are apples,	of the fruit are oranges.								

<u>Teacher Led</u>

What is ratio? <u>https://www.schoolsofkingedwardvi.co.uk/ks2-maths-year-6-6a-ratio-proportions-ratio/</u>

Example video of simplifying ratios: <u>https://www.youtube.com/watch?v=cbjQWf41108</u> , <u>https://www.bbc.co.uk/bitesize/topics/zsq7hyc/articles/z8kfnbk</u>

If I have a ratio of 6 boys to every 8 girls, it could be written like 6:8. But I could simplify it further by dividing both sides by 2 (like fractions!). This will give me the ratio 3:4. The ratio



Your turn:

You must show your working out like the ones above!

A1 Simplify the ratio 4:8	A2 Simplify the ratio 2:10	A3 Simplify the ratio 10:15	A4 Simplify the ratio 9:15
B1 Simplify the ratio 14:7	B2 Simplify the ratio 12:3	B3 Simplify the ratio 20:8	B4 Simplify the ratio 20:15

£:#	2:8	∵ ti	£:2
B4 Simplify the ratio 20:15	B3 Simplify the ratio 20:8	B2 Simplify the ratio 12:3	BI Simplify the ratio 14:7
B : B	5:3	₫:Ţ	1:2
A4 Simplify the ratio 9:15	A3 Simplify the ratio 10:15	A2 Simplify the ratio 2:10	8:4 other action of the ratio 4:8

<u>Fluency</u>

Bronze	Silver	Gold
Simplify: 2:8	Simplify: 32 : 40	Simplify: 4 : 10 : 18
3 : 15	45 : 36	3:6:9
4 : 10	222 : 4	10 : 15 : 25
8:4	33 : 36	28 : 35 : 49
20 : 30	2 : 1242	30 : 15 : 60
28 : 21	17:34	22 : 33 : 110
100 : 60	48 : 102	13:65:26
15 : 40	2 : 4 : 10	40 : 30 : 45 : 70

25 : 150	30 : 75	
34 : 102	148 : 111	97 : 194
52 : 130	112 : 320	2.4 : 5.6
32:480	7.8 : 9.1	128 : 160
2.5 : 3.5	42 : 280	66 : 30
84 : 156	378 : 105	250 : 750
32:28.8	2.4 : 1.8	25:45

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Explain it!

Tariq lays tiles in the following pattern:



If he has 16 blue tiles and 20 purple tiles can he continue his pattern without there being any tiles left over?

Explain why.



- For every 2 red cubes there are 5 green cubes.
- For every 3 green cubes there are 2 red cubes.
- For every 3 green cubes there are 5 red cubes.

Bronze	Silver	Gold
Simplify: 2 : 8 = 1:4	Simplify: 32 : 40 = 4:5	Simplify: 4 : 10 : 18 = 2:5:9
3 : 15 = 1:5	45 : 36 = 5:4	3 : 6 : 9 = 1:2:3
4 : 10 = 2:5	222 : 4 = 111:2	10 : 15 : 25 = 2:3:5
8 : 4 =2:1	33 : 36 = 11:12	28 : 35 : 49 = 4:5:7
20 : 30 = 2:3	2 : 1242 = 1:621	30 : 15 : 60 = 5:3:12
28 : 21 = 7:3	17 : 34 = 7:34	22 : 33 : 110 = 22:33:110
100 : 60 = 5: 3	48 : 102 = 8:17	13 : 65 : 26 = 13:65:26
15 : 40 = 3: 8	2 : 4 : 10 = 1:2:5	40 : 30 : 45 : 70 = 8:6:9:14

25:150	30 : 75	Real Providence in the second s	Problem solving and reasoning answers
1:6	2:5	J'ST	Dossible response: For every type
34 : 102	148 : 111	97 : 194	blue tiles there are three purple
1:3	4:3	1:2	pattern he will need 16 blue tiles
52:130	112 : 320	2.4 : 5.6	continue the pattern without there being tiles left over.
2:5	7:20	3:7	
32:480	7.8 : 9.1	128 : 160	False -
1 : 15	6:7	4 : 5	True
1.15	0.7	ч. <i>5</i>	True
2.5 : 3.5	42:280	66:30	False
5:7	3:20	11 : 5	True
84 : 156	378 : 105	250 : 750	Fabio is incorrect because 2/7 of the roses are red. He has mistak-
7:13	18:5	1:3	en a part with the whole.
32:28.8	2.4 : 1.8	25:45	
10:9	4:3	5:9	
			True
			False
			True
			False

Date	2.06.20
Subject/s	Maths
Learning Objective	To recall and use multiplication and division facts

1	9 X 7	30	6 x 9	59	9 X 4	
2	8 x 4	31	12 x 3	60	7 x 6	
3	7 x 10	32	3 x 8	61	4 x 8	
4	9 x 9	33	8 X 8	62	12 X 2	
5	6 x 2	34	6 x 8	63	3 x 6	
6	4 x 7	35	11 x 7	64	4 x 10	
7	9 X 2	36	10 x 1	65	9 x 11	
8	12 x 12	37	10 x 5	66	3 x 12	
9	5 X 9	38	3 x 5	67	3 x 10	
10	7 X 7	39	12 x 11	68	4 X 4	
11	11 x 6	40	6 x 6	69	4 x 9	
12	5 x 11	41	2 x 9	70	4 x 11	
13	4 x 6	42	12 x 7	71	6 x 5	
14	9 x 5	43	11 x 8	72	7 x 2	
15	8 X 12	44	2 x 6	73	5 x 12	
16	10 x 10	45	4 x 5	74	2 x 10	
17	7 x 3	46	4 x 9	75	4 x 12	
18	5 x 8	47	8 x 2	76	7 x 8	
19	3 x 3	48	7 x 9	77	6 x 10	
20	10 x 11	49	12 x 8	78	12 x 6	
21	11 x 2	50	9 X 4	79	7 x 12	
22	2 x 7	51	5 X 5	80	2 X 2	
23	6 x 12	52	10 x 12	81	11 x 0	
24	5 x 7	53	8 x 11	82	2 x 12	
25	10 x 6	54	4 x 3	83	2 X 4	
26	9 x 12	55	2 x 5	84	8 x 5	
27	5 x 4	56	5 x 10	85	7 x 11	
28	11 x 11	57	9 x 3	86	9 x 6	
29	7 x 4	58	8 x 10	87	10 x 11	

Date	<u>02.06.20</u>		
Subject/s	Maths		
Learning Objective			
	To write ratio		
		SA	TA
		X	
Success Criteria	I can identify the parts in the word problem		
✓! 📃	I can identify/work out the whole		
	I can write the ratio as part: part = whole		
Support	Independent Adult Support () Group Work		8
Pre-task:			
Emily has a packet of sweets sweets does Emily have alto	. For every 3 red sweets there are 5 purple sweets. Write this as a ration gether?	σ. Hσw i	nany
A farmer plants 20 crops in t	he field. He plants 5 potatoes. How many carrots does he plant? Write	it as a	ratio.

<u>Teacher Led</u>



It could be written as:

Circles: Triangles = Total

15: 20 = 35

But the simplified ratio would be

Circles: Triangles

3:4

You need to write headings for the ratios (not just the numbers!) so you know what the ratios represent!

<u>Your turn:</u>



Ratios may also look like word problems.

1. There are some pupils in a class. 20 of them are girls and 12 of them are boys. What is the ratio of boys to girls in its simplest form?

The two parts are boys and girls, the whole is the class

Boys: Girls = Class

20: 12 = 32

Simplest form

Boys: Girls

5:3

2. A fruit drink is made by mixing some orange juice with 180ml of pineapple juice. The drink is 300ml What is the ratio of orange juice to pineapple juice in its simplest form?

I know that the two parts are pineapple and orange. The total is the drink. We don't know the orange juice so we have to work it out.

Orange: Pineapple = Drink

 $_{---}$: 180 = 300 I know that 300 (whole) - 180 (part) = 120 which must be the other part so

120 : 180 = 300

Simplest form:

Orange : Pineapple

2:3

<u>Fluency</u>

In the zoo there are five giraffes for every two rhinos. Write this as a ratio	In a class there are three girls for every two boys. Write this as a ratio	A racing school has two Ferraris for every three Lamborghinis. Write the ratio of Ferrari to Lam- borghinis.	A theme park has four roller coasters for every three other types of ride. Write the ratio of coaster's to other rides.
There are 45 girls and 30 boys. Write in its simplest form the ratio of boys to girls.	In a tin of beans and sausages there are 8 sausages to 240 beans. Write in its sim- plest form sausages to beans.	Money taken at a school fair is in coins and notes. There are 550 coins and 150 notes. Write the ratio of coins to notes in its simplest form	A game of fortnite has 45 wins to 150 games. Write the ratio of wins to games in its sim- plest form
There are 6 eggs in each egg box. Write, in its simplest form, how many eggs there are to egg boxes if you have 72 eggs.	A student has been col- lecting coins. He has 20 50p's and 25 £1. Write in its simplest form the value of 50p to £1	A cake takes 360g of flour, the same amount of sugar, the same amount of butter, and 6 eggs. Write this ratio in its simplest form	A train takes 1 and a half hours to do a jour- ney, where as the bus takes three times this amount. Write the ratio of train time to bus times in minutes, as a ratio in its simplest form

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I mixed up some lemonade in two glasses.

The first glass had 200ml of lemon juice and 300ml of water. The second glass had 100ml of lemon juice and 200ml of water.

Which mixture has the stronger tasting lemonade? How do you know?

Prove it using: Ratio Images Fractions

Answers,

5:2	2	3:2	2	2:3		4:3	}
45:30	3:2	8:240	1:30	550:150	11:3	45:150	3:10
72:12	12:1	10:25	2:5	360:360:3 60:60:6	360:6 0:1	90:270	1:3

Date	03.06.20									
Subject/s		Maths								
Learning Objective	To recall and us	se multiplication and division	, facts							
2 × 2 =	3 x 3 =	4 × 4 =	11 × 10 =							
3 × 5 =	6 × 8 =	7 × 5 =	10 × 2 =							
4 × 6 =	12 × 5 =	8 × 12 =	3 × 12 =							
7 × 4 =	8 × 6 =	10 × 11 =	4 × 9 =							
10 × 10 =	10 × 12 =	4 x 2 =	5 x 7 =							
9 × 3 =	11 × 2 =	10 × 3 =	9 × 8 =							
7 x 2 =	3 × 9 =	6 × 8 =	10 × 7 =							
11 × 3 =	4 × 11 =	12 × 10 =	7 × 8 =							
10 × 5 =	2 × 5 =	2 × 11 =	4 × 3 =							
2 × 4 =	6 × 10 =	8 × 3 =	12 × 4 =							
5 × 6 =	10 × 9 =	3 × 4 =	5 x 8 =							
7 × 10 =	2 × 12 =	4 × 5 =	8 × 8 =							
9 × 2 =	5 × 3 =	7 x 8 =	12 × 2 =							
3 × 11 =	9 × 4 =	8 × 10 =	5 × 4 =							
10 × 4 =	5 × 5 =	2 × 8 =	9 × 5 =							
8 × 5 =	8 × 8 =	= 0 × 8	8 × 11 =							
9 × 8 =	9 × 10 =	4 × 12 =	2 × 10 =							
4 × 10 =	5 × 2 =	12 × 8 =	4 × 7 =							
3 × 2 =	6 × 3 =	3 × 6 =	11 × 5 =							
7 × 3 =	6 × 4 =	5 × 10 =	2 × 3 =							
4 × 8 =	5 × 11 =	8 × 2 =	8 × 9 =							
5 × 9 =	2 × 6 =	3 × 7 =	8 × 4 =							
12 × 8 =	3 × 10 =	11 × 4 =	11 × 8 =							
2 × 9 =	2 × 7 =	5 × 12 =	12 × 3 =							
10 × 8 =	3 × 8 =	0 × 4 =	8 × 7 =							

Date	03 06 20		
	<u>05.00.20</u>		
Subject/s	Maths		
Learning Objective			
5 1	To calculate with ration		
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Success Criteria	I can write the ratio as part: part = whole		
			
	I can use my knowledge of multiples		
	I know that what happens to one "part" must happen to the other		
Support	Independent Adult Support () Group Work		1
Pre-task:			
	M		
A farmer plants some crop	os in a field. 🛛 🎾		
For every 12 carrots be pla	ints 5 potatoes		
He plants 60 carrots in tot			
He plants oo canots in tot			
How many potatoes did ne			
How many vegetables did	he plant in total?		

<u>Teacher Led</u>

There are 5 girls for every 6 boys at the swimming pool There are 18 boys at the pool. How many girls are there ?

First you need to write out the simplified ratio with the correct heading.

Girls: Boys

5:6

I then know what there are actually 18 boys, so I line this up underneath the boys column.

Girls : Boys

5:6

__: 18

I know with ratio that whatever happens to one side, happens to the other. So the 6 has been *multiplied by 3* to get to 18. So I need to multiply the 5 by 3 which gets 15. So there are 15 girls. I can then fill in my final ratio.

Girls : Boys

5:6

15: 18

For every five adults on the bus there are 2 children. There are 18 children on the bus. How many adults are there?

Write the simplified ratio with the correct heading:

Adults : Children

5:2

There are 18 children so I can line this up and work out what it has been multiplied by

Adults : Children

5:2

_ : 18

The 2 has been *multiplied by 9* to get to 18 so I need to do the same the other side. $5 \times 9 = 45$ Adults : Children

5:2

45 : 18

<u>Your turn</u>

In a bag of sweets there are 3 green ones for every 2 red ones. There are 12 green sweets in the bag. How many red ones?

<u>Fluency</u>

- 1. A math club has 27 boy members. The ratio of boys to girls is 3 : 6 . How many girl members does the math club have?
- 2. A school has 8 boys for every 9 girls. There are 56 boys. How many girls are there?
- 3. A pattern has 4 blue triangles to every 12 yellow triangles. There are 48 yellow triangles. How many blue triangles are there?
- 4. A gardening club has a range of members, for every 13 pensioners there are 2 below 60. If there are 12 people below 60, how many pensioners are there?
- 5. Dylan draws 1 heart for every 3 star for every 26 circles. Dylan has drawn 7 hearts. How many stars and circles has he drawn?
- 6. Gavin has nickels, dimes, and quarters in the ratio of 8 : 1 : 2. If 30 of Gavin's coins are quarters, how many nickels and dimes does Gavin have?
- 7. The ratio of girls to boys in a a swimming club was 2 : 4. There were 14 girls. How many total members were there in the club?
- 8. A truck is carrying pear juice, cherry juice, and apple juice bottles in a ratio of 3 : 1 : 3. If there are 16 cherry juice bottles, then how many juice bottles in total are there?
- 9. The ratio of girls to boys in a chess club was 5 : 4. There were 32 boys. How many girls were there in the club?
- A truck is carrying grape juice, passion fruit juice, and pear juice bottles in a ratio of 2 :
 1 : 2. If there are 20 grape juice bottles, then how many passion fruit juice bottles are there?

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Problem Solving and Reasoning



<u>Answers</u>

- 1. Boys: Girls 3:6 27 : 54
- 2. Boys : Girls 8 : 9 56: 63
- 3. Blue : Yellow 4 : 12 16: 48
- 4. Pensioners : Below 60 13: 2 78: 12
- 5. Heart : Star : Circle 1:3:26 7:21:182
- 6. Nickels: Dimes: Quarters 8:1:2 120:15:30
- 7. Girls: Boys 2: 4 14:28 = 42
- 8. Pear: Cherry: Apple 3:1:3 48:16:48 = 112
- 9. Girls : Boys 5 : 4 40 : 32
- 10. Grape : Passion : Pear 2 : 1 : 2 20: 10 : 20

Problem solving and reasoning answers

ASDI: 1 per = 0.72
TESCU: 1 pen = 0.69
TESCU is better value
He has enough butter to make 15 flapjacks.
He will need 150 g dark brown soft sugar, 6
tablespoons golden syrup, 375 g rolled oats
and 60 g sultanas or raisins.
Second packet:
15 orange
5 strawberry
So there are 20 sweets in each packet.
First packet:
8 strawberry
12 orange
The first packet contains 8 strawberry
sweets.

Date	04.06.20										
Subject/s	Maths										
Learning Objective	To recall and u	se multiplication and division facts									
3 × 4 =	7 × 8 =	9 ÷ 3 =	36 ÷ 12 =								
21 ÷ 7 =	8 × 6 =	12 × 4 =	10 × 8 =								
4 × 8 =	3 × 9 =	4 × 7 =	3 × 11 =								
40 ÷ 8 =	15 ÷ 3 =	27 ÷ 9 =	20 ÷ 4 =								
4 × 11 =	48 ÷ 6 =	8 ÷ 4 =	$6 \times 8 =$								
5 × 8 =	11 × 3 =	5 × 8 =	80 ÷ 10 =								
24 ÷ 4 =	88 ÷ 11 =	24 ÷ 3 =	4 × 1 =								
72 ÷ 8 =	8 × 4 =	9 × 4 =	8 x 5 =								
10 × 3 =	16 ÷ 4 =	8 × 11 =	6 × 4 =								
5 × 4 =	32 ÷ 8 =	6 ÷ 3 =	3 ÷ 3 =								
12 ÷ 3 =	3 × 6 =	48 ÷ 12 =	44 ÷ 11 =								
4 × 9 =	8 ÷ 8 =	3 × 4 =	7 x 3 =								
11 × 8 =	4 × 3 =	0 × 8 =	12 × 8 =								
3 × 12 =	48 ÷ 8 =	18 ÷ 3 =	28 ÷ 4 =								
24 ÷ 8 =	30 ÷ 10 =	3 × 3 =	56 ÷ 7 =								
27 ÷ 3 =	8 × 9 =	64 ÷ 8 =	4 × 12 =								
7 × 4 =	10 × 4 =	36 ÷ 4 =	5 × 3 =								
36 ÷ 9 =	16 ÷ 8 =	8 × 8 =	56 ÷ 7 =								
56 ÷ 8 =	8 × 3 =	21 ÷ 3 =	4 × 6 =								
3 × 0 =	72 ÷ 9 =	4 × 12 =	32 ÷ 4 =								
12 ÷ 4 =	3 x 8 =	96 ÷ 12 =	12 × 3 =								
33 ÷ 3 =	4 × 4 =	24 ÷ 8 =	7 x 8 =								
6 × 3 =	9 x 8 =	2 × 3 =	9 × 3 =								
40 ÷ 4 =	4 ÷ 4 =	11 × 4 =	21 ÷ 3 =								
28 ÷ 7 =	3 × 7 =	32 ÷ 8 =	8 × 12 =								

Date	<u>04.06.20</u>			
Subject/s	Maths			
Learning Objective				
	To calculate with ratios using	the total amount		
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			A	
Success Criteria	I can write the ratio as part: part = whole			
	I can use my knowledge of multiples			
▼ <u>}</u>	I know that what happens to one "part" must ha	ppen to the other		
Support	Independent Adult Support ()	Group Work		
Pre-task:				
Emily has a packet of sweet	5.			
For every 3 red sweets ther	e are 5 purple			
sweets.				
If there are 32 sweets in the	packet in total,			
how many of each colour a	e there? You			

<u>Teacher Led</u>

https://www.youtube.com/watch?v=ZoA84WbOQdk

In a bag of sweets there are 3 green ones for every 2 red ones. There are 15 sweets in the bag. How many green ones? How many red ones?

First thing we need to do is write the ratio we have been given

Green : Red

3:2

In the word problem we have been given the total, rather than one of the parts. So we need to work out the total of the ratio we have been given and compare it to the new total

Green : Red

3:2=5

_ : _ = 15

The total has been multiplied by 3 to get to the new total, so I need to do the same to both of the parts

Green : Red

3 : 2 = 5

9:6=15

I can check if it is right by adding up the two parts and checking I get the total

9 + 6 = 16

In a box of buttons there are 6 silver ones for every 4 gold ones. There are 20 buttons in the box. How many silver ones? How many gold ones?

Write the ratio

Silver : Gold

6:4

Write the new total and compare with the old one to work out the new parts

Silver : Gold

6 : 4 = 10

_ : _ = 20

I know what 10 has been multiplied by 2 to get to twenty, so I need to do the same to the rest of the ratio

Silver : Gold

6 : 4 = 10

12 : 8 = 20

<u>Your Turn</u>

In a test Rachel answered five questions correctly to every four she answered wrongly. There were 45 questions in the test. How many did she get right?

Fluency

- 1. Karen and Priti are sharing a packet of sweets in the ratio 2:3. There are 35 sweets in total. How many do they each get?
- 2. Tom, Phil and Ali deliver newspapers. One weekend they deliver 120 newspapers between them. If the numbers they delivered are in the ratio 1:4:3, how many newspapers did Ali deliver?
- 3. Ando and Hiro are 13 and 15 respectively. Their grandad gives them £112 to share in the ratio of their ages. How much do they each get?
- 4. There are 12 people in a book club. The ratio of men to women is 1:2. How many men and women are there?
- 5. In a tennis club there are 3 times as many right-handed players as there are left-handed players. If there are 36 players in total, how many are left-handed?

Using the same method as you've been using:

1.	Split £150 into the	follo	wing ratios:		
a.	2:1	b.	1:4	C.	3:7
2.	Split 360g into the f	follo	wing ratios:		
a.	3:1	b.	5:7	C.	2:4:3
3.	Split 225m into the	follo	wing ratios:		
a.	11:4	b.	5:1:3	d.	10:9:6

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Problem Solving and Reasoning

	Problem Solving and Reasoning
Use it!	David has two packets of sweets.
	In the first packet, for every one strawberry sweets there are two orange sweets.
	In the second packet, for every three orange sweets there are two strawberry.
	Each packet contains 15 sweets in total.
	Which packet has more strawberry sweets and by how many?
Use it!	Danielle is making some necklaces to sell. For every one pink bead, she uses three purple beads.
	Each necklace has 32 beads in total.
	The cost of the plain necklace is £2.80 The cost of a pink bead is 72 p The cost of a purple bead is 65 p
	How much does it cost to make one necklace?

Further Challenge

A swimming club has three categories of member: junior, senior and veteran. The ratio of junior to senior members is 3:2, and the ratio of senior to veteran members is 5:2. What is the least possible number of members of the swimming club?

Answers

- Karen : Priti

 2 : 3 = 5
 14 : 21 = 35

 Tom: Phil : Ali

 4 : 3 = 8
 5 : 60 : 45 = 120

 Ando : Hiro

 13 : 15 = 28
 52 : 60 = 112
- 4. Men : Women
 - 1:2=3
 - 4 : 8 = 12
- 5. Right : Left
 - 3 : 1 = 4 27 : 9 = 36
 - 1. Split \pounds 150 into the following ratios:
 - a. 2:1 b. 1:4 £100:£50 £30:£120
 - 2. Split 360g into the following ratios:
 - a. 3:1 b. 5:7 270g:90g 150g:210g
 - 3. Split 225m into the following ratios:
 - a. 11:4 b. 5:1:3 165g:60g 125g:25g:75g
- £45:£105

c. 3:7

- c. 2:4:3 80g:160g:120g
- d. 10:9:6 90g:81g:54g

Problem solving and reasoning

The first packet has 5 strawberry sweets and 10 orange sweets.

The second packet has 6 strawberry sweets and 9 orange sweets.

The second packet has 1 more strawberry sweet than the first packet.

Each necklace has 8 pink beads and 24 purple beads.

The cost of the pink beads is £5.76

The cost of the purple beads is £15.60

The cost of a necklace is £24.16

Date	05.06.20
Subject/s	Maths
Learning Objective	T
	Γσ calculate with ratio

RATIO

CONTENT DOMAIN REFERENCES: R1, R4





2

Mari is the presenter of a weekly radio show.



She always plays five new songs for every two old songs.

Last week she played 15 new songs.



[2 marks]

Amina planted some seeds.

[2017] For every 3 seeds Amina planted, only 2 seeds grew.

Altogether, 12 seeds grew.

How many seeds did Amina plant?



[1 mark]

Questions compiled by: @Maths4Everyone



[2 marks]

P

[2 marks]

I



[2 marks]

[2 marks]

[3 marks]

smallest	cm
middle	cm
tallest	<i>9</i> cm

[3 marks]

Class	Number in class	Football	Netball	Hockey
6M	27			13
6P	33		9	
6T	30			

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ce.

In another set of dolls, the height of the tallest doll is 9 cm.

Sho

What are the heights of the other dolls?

They are split into three classes.

Class 6M ମ 6P Number in class 27 ω ယ္ထ

Each child chose football or netball or hockey.

In 6M, 13 children chose hockey.

The rest of the class were split equally between football and netball

What are the heights of the other dolls?

cm smallest

9 cm middle

tallest

ŝ

In a set of dolls, the height of the middle doll is 9cm.

In 6P, 9 children chose netball.

Twice as many children chose football as chose hockey.

In 6T, the ratio of children who chose

football to netball to hockey was 1:2:3

Complete this table.

[Extra]

Ξ

There are 90 children in Year 6 at Woodland Junior School.

12

The heights of Russian dolls are in the ratio 4:6:7





[Extra]

Answers



A gardener plants tulip bulbs in a flower bed She plants 60 red bulbs. She plants 3 red bulbs for every 4 white bulbs How many bananas do they pack? The children pack 45 sandwiches. 1 packet of crisps Nov 4 XIZ 30

[2 marks]





[1 mark]

[2 marks]

[2 marks]



[2 marks]

[Extra] =

There are 90 children in Year 6 at Woodland Junior School.

They are split into three classes.

6T	6P	6M	Class
30	33	27	Number in class

Each child chose football or netball or hockey.

The rest of the class were split equally between football and netball In 6M, 13 children chose hockey. 27-13=14, 4=4

In 6P, 9 children chose netball. 33 - 9 = 24Twice as many children chose football as chose hockey. 2:1+ 16.

1100

In 6T, the ratio of children who chose football to netball to hockey was 1:2:3 1:2:3 F & N & H TOTAL 6 ks

Class N	omplete this t	
Number in class	table.	And to house y mus
Football		5×
Netball	5 10 19	1 1 1
Hockey	00	5× 4

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6T	6P	6M	Class
30	33	27	Number in class
S	16	4	Football
ю	9	4	Netball
Ū	8	13	Hockey
			10000

[3 marks]



[3 marks]