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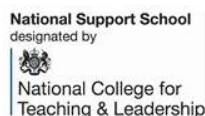
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Year 6 Learning in School Week 6

We understand that children who are not yet able to attend school may be curious to know and to have a go at, the learning their peers have completed in school this week. With this in mind, we will be sharing a simple outline of the learning completed in school at the end of each week. There is no expectation that children complete this learning alongside what they are already doing, however if they would like to Miss Kober and Miss Revels-Hull would be delighted if you shared this with them through the learning.saxon email account.

Subject	Learning Task
English	<div style="border: 1px solid green; padding: 5px; margin-bottom: 10px;"> <p>Video by Miss Kober for 6K and 6R: https://youtu.be/RmLOQTnSGOg</p> </div> <p>This week we have been learning about Body Positivity. https://www.youtube.com/watch?v=L6isTxQ_j_U&list=PLct19d3Dm92mmMNnOg1fWX7ctmwXCHQ-9&index=3 https://www.youtube.com/watch?v=PR--jQMcoSo&list=PLct19d3Dm92mmMNnOg1fWX7ctmwXCHQ-9&index=12</p> <p><i>Explore these video links with an adult. What are your thoughts? Should we wish for different things about our body, or enjoy and celebrate what we have? Do images in the media help us to feel happy about our bodies? What do you think of these images? Create a poster to share messages of body positivity and how we can all feel more positive about ourselves. You may choose to mention how to develop your own self-esteem or how to challenge negative 'body-talk' comments.</i></p>
Maths	<div style="border: 1px solid green; padding: 5px; margin-bottom: 10px;"> <p>Video by Miss Kober for 6K and 6R: https://youtu.be/q9mF01-vCy8</p> </div> <p>Children completed problem solving questions, using their knowledge of ratio and proportion.</p> <p><i>You will find the questions the children worked from in class, below.</i></p>
PSHE	<p>Children completed their Year 6 RSE learning this week. We are unable to share the resources from this due to copyright, but we talked about the following topics. If you have any questions, please speak to your grown up who will be able to give you more information, or email Miss Kober or Miss Revels-Hull at the learning.saxon email account. The learning consisted of:</p> <ul style="list-style-type: none"> • Explaining how boys' and girls' bodies change through puberty. • Identifying male and female body parts.



	<ul style="list-style-type: none">• The progression from conception through pregnancy to birth.• Understanding how being physically attracted to someone changes the nature of a relationship and what that might mean about having a girlfriend/boyfriend.• Respect for one another is essential in a boyfriend/girlfriend relationship, and that we should not feel pressured into doing something we do not want to.• To recognise when people are trying to gain power or control and demonstrate ways we could stand up for ourselves and our friends.
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R5a Ratios - Simplifying

1) Draw ten 4 by 3 rectangles and label them a to j

Shade in the rectangles in the following ratios: →

The first answer is 'a'

The three shaded squares could have been any three of the squares.



Shaded : Unshaded

a	1	3
b	1	2
c	1	5
d	5	7
e	1	1
f	1	11
g	2	4
h	0.5	2.5
i	0.2	1
j	9	15

2) Write the following ratios in their simplest form:

- 8 : 12
- 6 : 10
- 15 : 10
- 16 : 4
- 18 : 16
- 25 : 15
- 45 : 15
- 18 : 27
- 24 : 30
- 36 : 48

3) Find the missing numbers in these ratios:

- $1 : 4 = 2 : \square$
- $1 : 5 = 6 : \square$
- $2 : 7 = 8 : \square$
- $5 : 4 = 15 : \square$
- $2 : 3 = \square : 12$
- $9 : 5 = \square : 35$
- $3 : \square = 18 : 30$

R5b

Ratios - Sharing

- 1) Share out £20 between Bill and Sue in the ratio 3 : 2.
 - 2) Divide £60 between Jack and Jill in the ratio 7 : 3.
 - 3) Debbie and Dave share 200 Smarties in the ratio 1 : 4. How many Smarties do they each get?
 - 4) Alec, Tony and Sara share £720 in the ratio 1 : 2 : 3. How much do they each get?
 - 5) If Dave and Sue share £30 in the ratio 2 : 3, how much more than Dave does Sue get?
 - 6) Divide £12 between Mick and Sharon in the ratio 5 : 3.
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- 7) Pete and Sandra work part-time in a restaurant. They share the tips in the ratio 3 : 5.
If Pete gets £30 at the end of the week, how much will Sandra get?
 - 8) Vicky and John share some sweets in the ratio 2 : 7.
If Vicky ends up with 12 sweets, how many will John have?
 - 9) Len makes some concrete by mixing cement, sand and gravel in the ratio 1 : 4 : 3.
If he uses 8 bags of sand, how many bags of cement and gravel will he use?
 - 10) An old television has a width and height in the ratio 4 : 3. If the width is 48 cm, what is the height?

R5b

Ratios - Sharing

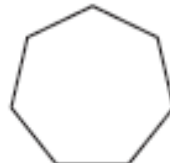
- 1) Which one of these regular polygons has the number of diagonals and the number of sides in the ratio 2 : 1?



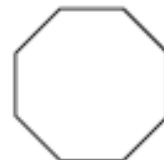
A



B



C



D

- 2) Two numbers are in the ratio 7 : 3.
If you take one of the numbers away from the other one you get an answer of 24.
What are the two numbers?
- 3) In a class of 30 pupils the ratio of boys to girls is 2 : 3.
If 6 girls (but no boys) join the class what is the new ratio of boys to girls?
- 4) Sue, Ted and Ben all have their birthday on the 1st January.
In 2010, Sue, Ted and Ben have ages in the ratio 2 : 3 : 4.
- If Ted is 15 years old, how old are Sue and Ben?
 - When Sue, Ted and Ben are all five years older, what will be the ratio of their ages? Write the answer in its simplest form.
 - In which year was the ratio of Sue, Ted and Ben's age 1 : 2 : 3?
 - How old was Ben when the ratio of the three ages was 1 : 3 : 5?
 - On what date was the ratio of Sue and Ben's age 1 : 41?

R8

Direct Proportion

- 1) 4 litres of orange juice cost £3.20.
 - a) What is the cost of 8 litres?
 - b) How much would 20 litres cost?
 - c) How much would you pay for 6 litres?
 - d) What is the cost of 5 litres?

- 2) 15 voice minutes cost 45p.
What is the cost of
 - a) 30 voice minutes?
 - b) 150 voice minutes?

- 3) If £1 is worth 1.12 euros, how many euros would you get for £150?

- 4) Use direct proportion to solve the following problems:
 - a) 5 litres of water cost £3.00.
How much would 9 litres cost?
 - b) A recipe for two people uses 90 g of flour.
How much flour is needed for 5 people?
 - c) 20 blank CD-Roms cost £3.20.
How much do 75 CD-Roms cost?
 - d) A litre of water costs 62p.
What is the cost of 2.5 litres of water?
 - e) 3 kg of cheese costs £7.50
What is the cost of 6.5 kg of cheese?
 - f) 2 litres of smoothie contains 900 ml of orange juice.
How much orange juice is in 8.5 litres of smoothie?
 - g) A 120 ml carton of yoghurt contains 12 g of sugar.
How much sugar would be in a 200 ml carton of yoghurt?

R8

Direct Proportion

1)

Miles	Kilometres
5	8
10	
	24
	32
50	

- Use direct proportion to complete this conversion table.
- The distance between London and Birmingham is 120 miles. Use the table to work out this distance in kilometres.
- The distance between London and Paris is 460 kilometres. Use the table to work out this distance in miles.

2) Here are three offers for voice minutes on a mobile phone.

A

Minutes	Cost
1	£0.04
5	£0.20
40	£1.60

B

Minutes	Cost
2	£0.24
10	£1.00
100	£7.00

C

Minutes	Cost
10	£0.70
50	£3.50
60	£4.20

In which of the offers are the numbers in direct proportion?
In each case, explain your answer.

- 3) A jar has 200 sleeping flies in it and the lid is firmly on.
The weight of the jar, when empty is 1 kg.
The weight of the jar and sleeping flies is 1.9 kg (1900 g).
- If all the flies are the same weight, what is the weight of one fly?
 - Tina shakes the jar so that all the flies are now awake and flying around.
What will the weight of the jar of flies be, now?