Wednesday 13th May

Dear Year 6,

We hope you and your families are keeping well and have had a good week.

Here are the activities for this week for you to follow and complete. Use today to catch up with any Science and History activities that you haven't finished

Try to read for at least 20 minutes a day and take Accelerated Reader quizzes from home by using this link Howley Grange Renaissance at home and logging on as usual using your username and password. To check that the book you are reading has a quiz, you can check it using on Accelerated Reader Bookfinder. It's okay to read books which haven't got a quiz – just keep a record of what you have read.

This week would have been SATs week so there are some optional **fun** SAT papers to do at a time that's best for you. We've put them as a separate home-learning pack. We hope that you'll have a giggle when you complete and mark them at home!

As always, remember to take time to relax, exercise and be kind to yourselves and each other.

Take care and keep smiling,

Mrs Graham and Mrs North

English Activity 3a – Writing your portal story

You now have all of the tools required to write your own portal story. You may like to write about a more traditional portal that leads you to a magical world, or you may prefer to draw upon your personal experiences, as we have explored throughout this unit.

To recap on all the key points we've been learning:

a. **Describe the portal in detail**. You may want to show the portal through the eyes of the main character.

b. **Think about what lies on the other side of the door.** Allow yourself the opportunity to write about what interests you and what is important to you.

c. **Great writers steal ideas ('magpie') from other great writers.** Reflect upon the portal stories that you have loved reading and consider what made these so engaging. Try to bring in some of these skills and techniques into your own work.

d. **Enjoy it.** Writing is all about sharing a passion for words, stories and the world of possibility. If you love the story you are writing – so too will your reader.

★ **Now write your portal story, drawing on all that you have learned. Don't forget to share or publish your work – great writing deserves an audience!**

© Talk for Writing

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Maths Activity 3a – ten in ten ☺

1. 0.35 + 0.6 + _____ = 1

2. ¾ of 24

3. How many months in ¾ of a year?

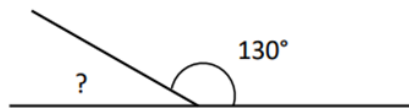4. Fill in the missing operations (+, -, x or ÷) to make this correct:
   5 □ 6 □ 3 □ 2 = 8

5. A rectangular swimming pool measures 6 metres by 4 metres. What is the **area**?

6. What 3d shape does this net make?

7. What is the missing angle?

130°

?
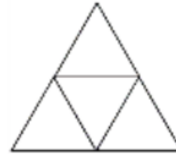
8. Two numbers have a sum of 15 and a product of 26. What are they?

9. I eat a third of a box of chocolates. There are now 16 left. How much were in the box at the start?

10. If $2x + 1 = 7$ what is the value of x?

You know the rule!

Ten minutes to answer ten questions ☺

Free Math Sheets, Math Games and Math Help
MATH-SALAMANDERS.COM

Maths Activity 3b – fractions and percentages as proportion

We have included Learning Reminders that will help you with answering today's questions.

Don't forget that you can also use your Maths revision book to help you.

Learning Reminder

Find percentages, link to proportion.

We can use fractions or percentages to describe a proportion.

In one group of 10 children, 3 prefer cycling and 7 prefer swimming.

10 children	
$^3/_{10}$ 30% 3 children prefer cycling	$^7/_{10}$ 70% 7 children prefer swimming

30 children are asked. The same proportion of children prefer cycling. How many children is this?

30 children	
$^3/_{10}$ 30% **9** children prefer cycling	$^7/_{10}$ 70% **21** children prefer swimming

If 60 children were asked. How would we change the bar model diagram? **Double the numbers of children.**

If the same proportion preferred cycling, how many would this be?

Find percentages, link to proportion.

40 children were asked and 75% preferred swimming. The rest preferred cycling.
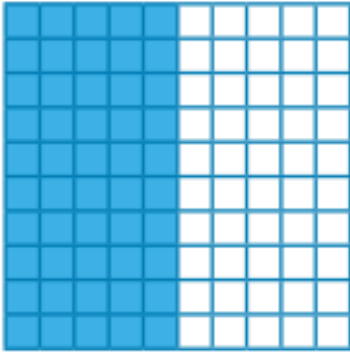
Let's draw a bar model diagram to show this.

What is the fraction of children who chose swimming rather than cycling?

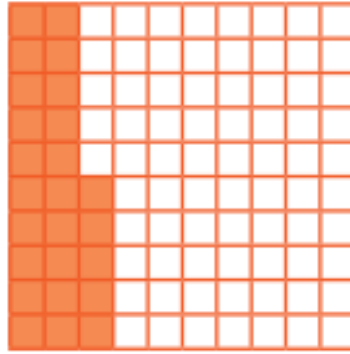How many children choose swimming? And cycling?

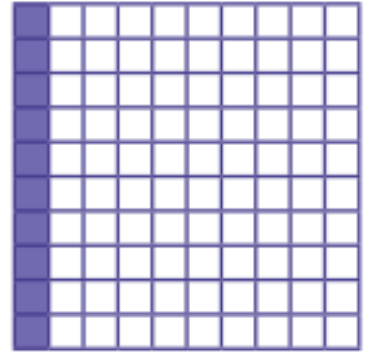| 40 children	
$^1/_4$ 25% ? children prefer cycling	$^3/_4$ 75% ? children prefer swimming

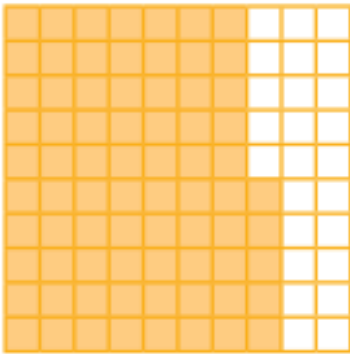## Equivalent Fractions, Decimals and Percentages
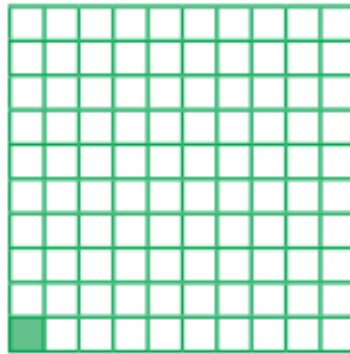
$$\frac{50}{100} = \frac{1}{2} = 0.5 = 50\%$$

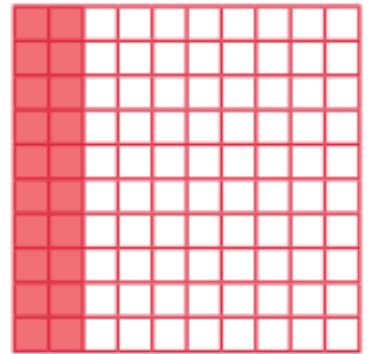$$\frac{25}{100} = \frac{1}{4} = 0.25 = 25\%$$

$$\frac{10}{100} = \frac{1}{10} = 0.1 = 10\%$$

$$\frac{75}{100} = \frac{3}{4} = 0.75 = 75\%$$

$$\frac{1}{100} = 0.01 = 1\%$$

$$\frac{20}{100} = \frac{2}{10} = 0.2 = 20\%$$

Maths Activity 3b ** and 3b***

** Equivalent fractions and percentages

30 children were asked to vote for cycling, swimming or football as their favourite weekend activity.

Fraction	Percentage	Number of children
$\frac{1}{2}$ of children prefer swimming		
$\frac{3}{10}$ of children prefer cycling		
The rest prefer football		

30 children were asked to vote for oranges, bananas or apples as their favourite fruit.

Fraction	Percentage	Number of children
$\frac{2}{5}$ of children prefer bananas		
$\frac{3}{10}$ of children prefer apples		
The rest prefer oranges		

30 children were asked to vote for dogs, cats or rabbits as their ideal pet.

Fraction	Percentage	Number of children
$\frac{1}{2}$ of children prefer dogs		
$\frac{1}{5}$ of children prefer cats		
The rest prefer rabbits		

*** Equivalent fractions and percentages

40 children were asked to vote for cycling, swimming or football as their favourite weekend activity.

Fraction	Percentage	Number of children
☐ preferred swimming	20%	
☐ preferred cycling		20
The rest preferred football		

60 children were asked to vote for dogs, cats or rabbits as their ideal pet.

Fraction	Percentage	Number of children
☐ preferred dogs		
$\frac{3}{10}$ preferred cats		
The rest preferred rabbits		12

50 children were asked to vote for oranges, bananas or apples as their favourite fruit.

Fraction	Percentage	Number of children
☐ preferred oranges		5
☐ preferred bananas		
The rest preferred apples	30%	

Maths Activity 3c - Challenge

Complete the bar models.

32 children	
¹/₄ ? chn	³/₄ ? chn

40 children	
40% ? chn	60% ? chn

If 6 children in a class do not like sport, and there are 30 children in the class, what proportion *do* like sport?

Give your answer as a fraction *and* as a percentage.

ANSWERS Activity 3a - Ten in ten

1.	$0.35 + 0.6 +$ _____ $= 1$	**0.05**
2.	¾ of 24	**18**
3.	How many months in ¾ of a year?	**9**
4.	Fill in the missing operations (+, -, x or ÷) to make this correct: 5 ☐ 6 ☐ 3 ☐ 2 = 8	**5x6÷3-2**
5.	A rectangular swimming pool measures 6 metres by 4 metres. What is the **area**?	**24m²**
6.	What 3d shape does this net make?	**tetrahedron or triangular pyramid**
7.	What is the missing angle? 130° ?	**50°**
8.	Two numbers have a sum of 15 and a product of 26. What are they?	**2 and 13**
9.	I eat a third of a box of chocolates. There are now 16 left. How much were in the box at the start?	**24 chocolates**
10.	If $2x + 1 = 7$ what is the value of x?	$x = 3$

**   ## Equivalent fractions and percentages

Swimming 50%   15 children
Cycling 30%   9 children
Football 20%   6 children

Bananas 40%   12 children
Apples 30%   9 children
Oranges 30%   9 children

Dogs 50%   15 children
Cats 20%   6 children
Rabbits 30%   9 children

***   ## Equivalent fractions and percentages

Swimming	$\frac{1}{5}$	20%	8 children
Cycling	$\frac{1}{2}$	50%	20 children
Football		30%	12 children
Oranges	$\frac{1}{10}$	10%	5 children
Bananas	$\frac{3}{5}$	60%	30 children
Apples		30%	15 children
Dogs	$\frac{1}{2}$	50%	30 children
Cats		30%	18 children
Rabbits		20%	12 children

Complete the bar models.

32 children	
$\frac{1}{4}$ **8 chn**	$\frac{3}{4}$ **24 chn**

40 children	
40% **16 chn**	60% **24 chn**

If 6 children in a class do not like sport, and there are 30 children in the class, what proportion *do* like sport?

Give your answer as a fraction *and* as a percentage.

24 *like* sport which is $\frac{24}{30}$ or $\frac{4}{5}$ as a fraction and 80% as a percentage.