Week 8, Day 1

Introduction to percentages

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

- Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.
- 3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...







Write a number that goes between 2.3 and 2.4.

Learning Reminders



Learning Reminders



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The symbol '≡' means
'equivalent to'.
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$$^{10}/_{100} \equiv ^{1}/_{10} \equiv 10\% \equiv 0.1$$

That's a lot of different ways to write the same amount!

Learning Reminders







Practice Sheets Answers

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Percentages (mild)

20%	
3%	
10%	
50%	
25%	
75%	
99%	
15%	
46%	

0

80%

Percentages (hot)

$20\% = 0.2 = \frac{20}{100} = \frac{2}{10} = \frac{1}{5}$
$3\% = 0.03 = \frac{3}{100}$
$10\% = 0.1 = \frac{10}{100} = \frac{1}{10}$
$50\% = 0.5 = \frac{50}{100} = \frac{5}{10} = \frac{1}{2}$
$25\% = 0.25 = \frac{25}{100} = \frac{1}{4}$
$75\% = 0.75 = \frac{75}{100} = \frac{3}{4}$
$99\% = 0.99 = \frac{99}{100}$
$15\% = 0.15 = \frac{15}{100} = \frac{3}{20}$
$46\% = 0.46 = \frac{46}{100} = \frac{23}{50}$
$80\% = 0.8 = \frac{80}{100} = \frac{8}{10} = \frac{4}{5}$

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Carefully shade small squares in each grid to show the following percentages:

25%

20% 40%



Write the correct percentage by each grid.

5%

_	_	_	_	 _	 _	_	_





8%



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2	+ ? = $x c_m^3 \frac{1}{2} \div \frac{1}{3} > m^2 + \% < \frac{5}{6} - c_m ? + \frac{1}{3}$	á +
*	Investigation	•••
m²	Percentage explorers	N
^	5	×
2	You will need:	CM3
ų	 squared paper 	1/2
-1-		•1•
γ,	 What to do: Draw seven 5 × 2 rectanales on savared paper. 	ħ
сm³	Each therefore has an area of 10 squares.	2
×	 Shade small squares in each grid to show the following 	V
w	percentages.	m²
۰۱۰	50% 25% 60%	+
*		%
~	10% <mark>20%</mark> 75% 90%	Ν
сm		5%
Т	 In each case how many squares are coloured in? 	1
5%	Which of the percentages resulted in some of the small	ä
۷	squares being halved?	
%	 Predict how many squares would be coloured in for each 	
*	percentage if the rectangle measured 5 by 4 squares.	
Ĩ	 Now check your predictions were any squares balved this time? 	ClM3
^	new oneok your predictions, were any squares naived this time.	1/2
%		•1•
CA.		40
· ·	FChallenge	2
3 1	Investigate another rectangle.	V
cm	Can you predict whether any squares will need to be divided in order to show some of the percentages?	m ²
×		+
11	© Hamilton Trust Explore more Hamilton Trust Learning Materials at https://wrbt.org.uk/bamilton	%
~-		Ν
۷	+ ? = $x \ cm^3 \ \frac{1}{2} \div \frac{1}{3} > m^2 + \% < \frac{5}{6} - cm ? + \frac{1}{3}$	3

