

For those of you not in school this week, here is an overview of what we will be doing in school and information that you may need to be able to follow along with us and complete as much of the work that we will be doing as possible.

## **Monday and Tuesday** - *Use equivalences between fractions, decimals and percentages*

Remind yourself of the basic conversions between fractions, decimals and percentages that you did in year 5. Convert between all 3 elements using Monday/Tuesday Activity 1 below. It's pretty easy when your denominator is 100

$$( 0.43 = 43\% = \frac{43}{100} )$$

Once you have got back into the flow of the simpler ones such as these, try using the Monday/Tuesday activity 2 sheets below to make further conversions between percentages and decimals, decimals and fractions and fractions and percentages. The text boxes at the top of the sheet remind you of the steps needed to convert.

We will be spending Monday and Tuesday's maths sessions on these activities in school.

## **Thursday** - *Solve problems involving the conversions of fractions, decimals and percentages*

We will be using our conversion skills from Monday and Tuesday to solve problems. Try the ones on the next few pages.

Complete the table to convert the fractions, decimals and percentages to their equivalents.

<b>Fraction</b>	<b>Decimal</b>	<b>Percentage</b>
	0.22	
		83%
$\frac{48}{100}$		
	0.75	
		95%
$\frac{16}{100}$		
	0.92	
		80%
$\frac{26}{100}$		
	0.44	
		11%
$\frac{35}{100}$		
	0.56	
		25%
$\frac{99}{100}$		

## Monday/Tuesday activity sheet 2

### Converting between percentages and decimals

#### Percentage to Decimal

Divide by 100.

#### Decimal to Percentage

Multiply by 100.

Convert these into decimals IN YOUR BOOK:

- 1) 22%
- 2) 78%
- 3) 4%
- 4) 134%
- 5) 0.3%
- 6) 1.5%
- 7) 46.2%

Convert these into percentages IN YOUR BOOK:

- 1) 0.34
- 2) 0.69
- 3) 1.26
- 4) 0.02
- 5) 0.008
- 6) 0.473
- 7) 0.056

## Converting between decimals and fractions

### Decimal to fraction

- Multiply it by 100
- Use this as your numerator and 100 as your denominator
- Simplify.
- Convert into a mixed number if your answer is an improper fraction.

### Fraction to decimal

- See the fraction as a division and divide the top number by the bottom number (SMALLEST IN BUS STOP!!)

### Convert these into fractions IN YOUR BOOK:

- 1) 0.48
- 2) 0.32
- 3) 0.91
- 4) 0.04
- 5) 1.76
- 6) 2.73

### Convert these into decimals IN YOUR BOOK:

- 1)  $\frac{5}{7}$
- 2)  $\frac{2}{3}$
- 3)  $\frac{1}{3}$
- 4)  $\frac{9}{11}$
- 5)  $\frac{5}{6}$

## Converting between fractions and percentages

### Fraction to percentage

- Convert into decimal by dividing the top number by the bottom number.
- Multiply by 100.

### Percentage to fraction

- Use the percentage as the numerator and make 100 your denominator.
- Simplify

Convert these into percentages IN YOUR BOOK:

1)  $\frac{7}{10}$

2)  $\frac{5}{6}$

3)  $\frac{10}{11}$

4)  $\frac{3}{7}$

5)  $\frac{12}{10}$

Convert these into fractions IN YOUR BOOK:

1) 48%

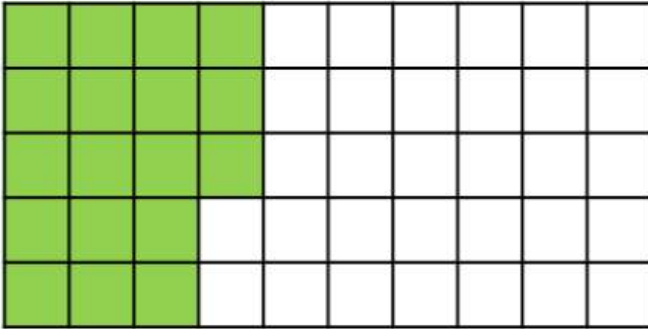
2) 56%

3) 2%

4) 4%

5) 61%

### Thursday activity sheet - problems



Amir thinks that 18% of the grid has been shaded.

Dora thinks that 36% of the grid has been shaded.

Who do you agree with?

Explain your reasoning.

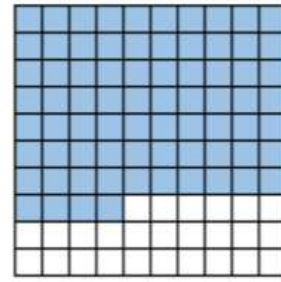
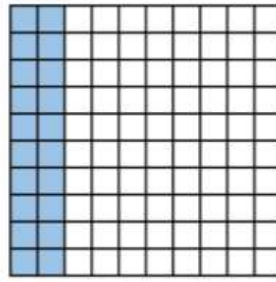
In a Maths test, Tommy answered 62% of the questions correctly.

Rosie answered  $\frac{3}{5}$  of the questions correctly.

Who answered more questions correctly?

Explain your answer.

- What fraction of each hundred square is shaded? Write the fractions as percentages.



- Complete the table.

Fraction	Percentage
$\frac{1}{2}$	
$\frac{1}{4}$	
$\frac{1}{10}$	
$\frac{1}{5}$	

- Fill in the missing numbers.

$$\frac{12}{100} = \square \% \quad \frac{\square}{100} = 35\%$$

$$\frac{12}{50} = \frac{\square}{100} = \square \% \quad \frac{44}{\square} = \frac{22}{100} = 22\%$$

- Complete the table.

Decimal	Fraction	Percentage
0.35	$\frac{35}{100}$	35%
0.27		
0.6		
0.06		

Use  $<$ ,  $>$  or  $=$  to complete the statements.

$0.36 \bigcirc 40\%$

$\frac{7}{10} \bigcirc 0.07$

$0.4 \bigcirc 25\%$

$0.4 \bigcirc \frac{1}{4}$

Which of these are equivalent to 60%?

$\frac{60}{100}$

$\frac{6}{100}$

$0.06$

$\frac{3}{5}$

$\frac{3}{50}$

$0.6$

Use  $<$ ,  $>$  or  $=$  to complete the statements:

$60\% \bigcirc 0.6 \bigcirc \frac{3}{5}$

$0.23 \bigcirc 24\% \bigcirc \frac{1}{4}$

$37.6\% \bigcirc \frac{3}{8} \bigcirc 0.27$

Four friends share a pizza. Whitney eats 35% of the pizza, Teddy eats 0.4 of the pizza, Dora eats 12.5% of the pizza and Alex eats 0.125 of the pizza.

Write the amount each child eats as a fraction.

Who eats the most? Who eats the least? Is there any left?