

Week beginning: 1st June

Class and Subject: Maths SEN Teacher: Ms. Hogan



ST. PATRICK'S GIRLS NATIONAL SCHOOL
GARDINER'S HILL, CORK

Hi everyone,

This week we are continuing to learn about the percentages. By the end of this week we should be able to

Watch example videos on how to do activities on the school website. Go to Ms Landers 6th class and find the video under Ms Hogan's name.

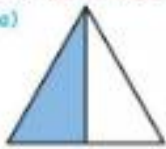
- Write fraction as a decimal
- Write decimal as a fraction
- Find a percentage of a number
- Increase a number by a percentage

Do one box of Work it out each day

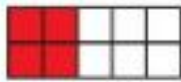
Wednesday

1. What percentage of each of these shapes is coloured? Find the fraction first.

(a)



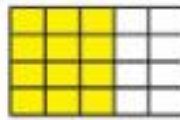
(b)



(c)



(d)



Answers: 1a) $\frac{1}{2} = 50\%$ b) $\frac{4}{10} = 40\%$ c) $\frac{1}{4} = 25\%$ d) $\frac{12 \times 5}{20 \times 5} = \frac{60}{100} = 60\%$

Change these fractions to percentages

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

b) $\frac{7}{20}$

c) $\frac{2}{4}$

d) $\frac{10}{25}$

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

f) $\frac{12}{25}$

1. Write <, > or = in each .

(a) 40% $\frac{4}{10}$

(b) $\frac{2}{20}$ 2%

(c) 45% $\frac{3}{5}$

(d) $\frac{2}{50}$ 2%

(e) $\frac{1}{10}$ 1%

(f) $\frac{35}{100}$ 30%

(g) 25% $\frac{1}{5}$

(h) $\frac{8}{100}$ 9%

Remember < means less than
> means more than


Thursday

We can find a percentage of a number by changing the percentage to a fraction first.

A Jimmy drank 30% of a litre carton of milk after a race. He drank:

$30\% \rightarrow \frac{30}{100} = \frac{3}{10}$ Find $\frac{3}{10}$ of a litre.


$\frac{10}{10} = 1,000\text{ml}$
 $\frac{1}{10} = 100\text{ml}$
 $\frac{3}{10} = 300\text{ml}$



B Sally spent 75% of her €12 buying a cinema ticket. It cost:

$75\% \rightarrow \frac{75}{100} = \frac{3}{4}$ Find $\frac{3}{4}$ of €12.

$\frac{4}{4} = €12$
 $\frac{1}{4} = €3$
 $\frac{3}{4} = €9$



Step 1

Change 30% into a fraction = $\frac{3}{10}$

Step 2

Find $\frac{3}{10}$ of 1000ml = 300 (divide by denominator and multiply by numerator)

Practice

Mathemagic 5 page 105 Q 4-7

Friday

Fractions, decimals and percentages 1

We can make a number bigger by a **fraction** of itself.

Example **Increase** 36 by $\frac{1}{4}$.

$$\Rightarrow 36 + \frac{1}{4} \text{ of } 36 \Rightarrow 36 + 9 = 45$$

We can make a number bigger by a **decimal fraction** of itself.

Example **Increase** 270 by 0.3. $0.3 \Rightarrow \frac{3}{10}$

$$\Rightarrow 270 + \frac{3}{10} \text{ of } 270 \Rightarrow 270 + \begin{array}{r} 10 \overline{)270} \\ 27 \\ \times 3 \\ \hline 81 \end{array} \Rightarrow 270 + 81 = 351$$

$$270 \text{ increased by } 0.3 = 351$$

Can we increase a number by a **percentage** of itself?
What must we change the percentage into first?

Example **Increase** 230 by 70%. $70\% = \frac{7}{10}$

$$\Rightarrow 230 + \frac{7}{10} \text{ of } 230 \Rightarrow 230 + \begin{array}{r} 10 \overline{)230} \\ 23 \\ \times 7 \\ \hline 161 \end{array} \Rightarrow 230 + 161 = 391$$

$$230 \text{ increased by } 70\% = 391$$

Practice

Mathemagic page 106

Q 1 & 2