

Tenbury High Ormiston Academy Maths Department

Stage 8 Home Learning project Spring term 1

Name:

Deadlines:.....

Maths teacher:

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LMG:

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If you have any problems with any of the tasks then please ask your class teacher or pop along to homework club on Tuesday, Wednesday or Thursday lunchtimes.

For assessment criteria please see the school websites new homework page.

All tasks should be completed in your maths homework book.

Task 1: Mathematical definitions

Write a definition for each of the following terms and give an example where possible.

Exploring fractions, decimals and percentages	Investigating angles
Fraction	Degrees
Mixed number	Vertically opposite
Top-heavy fraction	Parallel
Percentage	Alternate angles
Decimal	Corresponding angles
Terminating	Interior angles
Recurring	Exterior angles
	Regular polygon

TASK 2: Complete each of the tasks below.

Make notes and give an example.

Give the definition of each keyword.

Title:- Fractions

LITERACY

Unscramble the following to make word related to fractions

1. Trained Moon
2. Roman Tour
3. Prime Pro

RESEARCH

Find 5 professions which use fractions

MEMORY

Write a method to explain how to convert

1. Mixed number to Improper Fractions
2. Improper fractions to Mixed number

SKILL PRACTICE 1

CONVERT MIXED NUMBER TO IMPROPER FRACTION

In your books write the question and answer.

1) $2 \frac{1}{3}$ 2) $4 \frac{2}{5}$ 3) $3 \frac{4}{7}$

4) $2 \frac{5}{10}$ 5) $5 \frac{7}{8}$

SKILL PRACTICE 2

CONVERT IMPROPER FRACTIONS TO MIXED NUMBER

In your books write the question and answer.

1) $\frac{10}{3}$ 2) $\frac{16}{5}$ 3) $\frac{32}{7}$


4) $\frac{58}{10}$ 5) $\frac{67}{9}$

★ CHALLENGE ★

I am having a big party and I want to bake 16 chocolate fudge cakes for it.

The ingredients for each chocolate fudge cake are:

- $\frac{1}{2}$ pint of milk
- $\frac{1}{3}$ of a bag of flour
- $\frac{1}{2}$ of a bag of sugar
- $\frac{1}{8}$ of a jar of chocolate spread.
- $\frac{1}{10}$ of a tub of margarine.



I need to bake 16 cakes. Work out the amounts of each ingredient

- 1) Write the amount as an improper fraction.
- 2) write the amounts as a mixed number.

How many pints of milk will I use?
How many bags of flour will I use?
How many bags of sugar will I use?
How many jars of chocolate spread will I use?
How many tubs of margarine will I use?

Task 3: Computer based homework task

Using www.corbettmaths.com watch the following videos and answer the questions set in your homework book.
You must show all your working out.

Video 32 Angles: Polygons

<i>Green</i>	<i>Amber</i>	<i>Red</i>	<i>Killer</i>
Textbook exercise Q 1 (g-i) Q2(a-c) Q 3(a-c) Q4 (a-c)	Textbook exercise Q1 (m and n) Q2(e-g) Q3(e-g) Q6(d and e) Q7(a and b)	Textbook exercise Q6(d-f) Q7(a-c) Q8(a-c) Apply questions 1-3	Textbook exercise Q7(f-l) Q8(d-f) Apply questions 3-8