Maths

Week 3 – Fractions. Remember how good you were at fractions in class last term, every Amber child did really well.

Day 1

Fuzzy Fraction Families

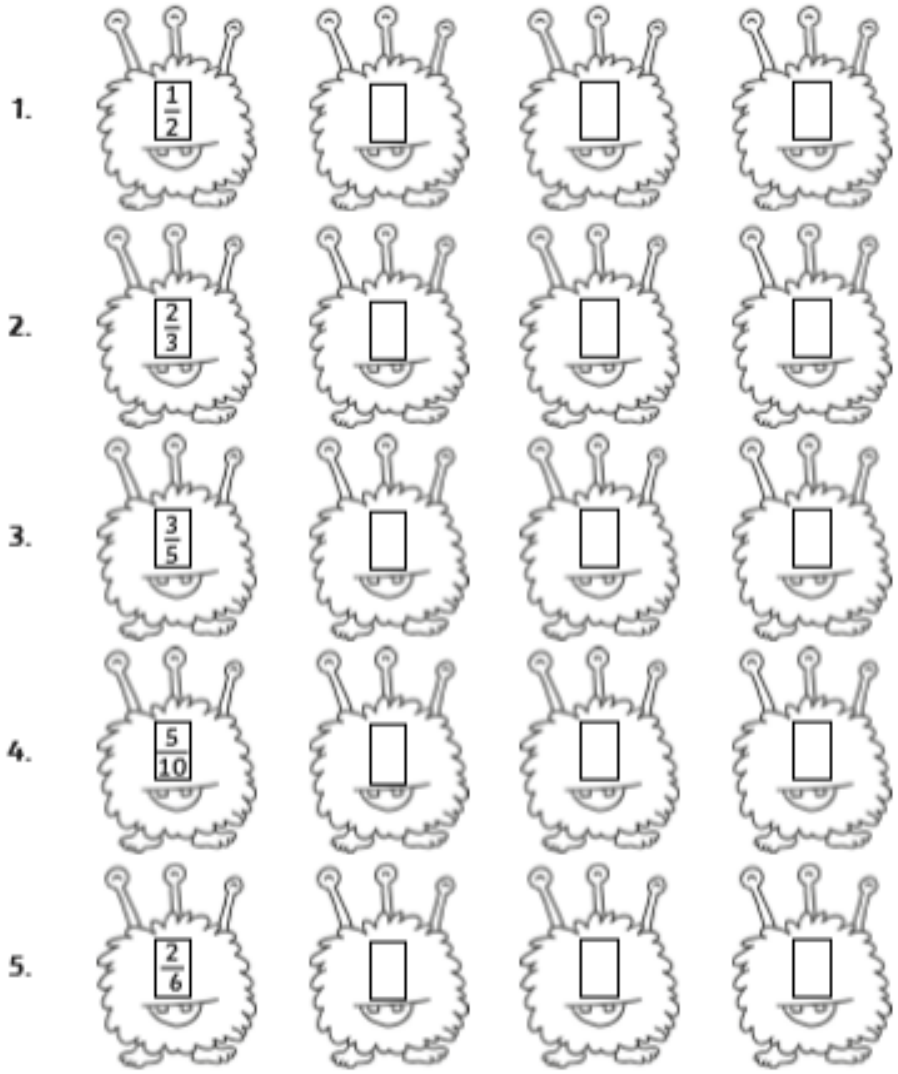
We can write the same fraction in many different ways. These are called equivalent fractions. To find an equivalent fraction you need to do exactly the same to the top (numerator) and the bottom (denominator) of the fraction. You can find equivalent fractions by multiplying the numerator and the denominator by the same number. Sometimes we call these sets 'fraction families'.

To find an equivalent fraction for $\frac{1}{4}$ we can multiply the numerator and denominator by the same number. Here are some equivalent fractions for $\frac{1}{4}$:

$$\frac{1}{4} - \frac{2}{8} \quad \frac{4}{16} - \frac{8}{32}$$

(each pair: ×2 above and ×2 below)

A. Write some equivalent fractions in the Fuzzy monsters. Multiply the top and the bottom of the fraction by 2 each time.



Day 2

Monster Line-Up

The pupils in Class 3 at Monster High are all different heights. Cut out each monster. Draw a number line and put each monster in the appropriate place on your number line.


1.1m


2.1m


1.8m


0.9m


0.6m


1.6m

Complete the statements by writing < or > in each box.

0.6m ☐ 1.1m 1.1m ☐ 0.9m 1.8m ☐ 0.6m

2.1m ☐ 1.8m 1.6m ☐ 2.1m 0.9m ☐ 1.6m

Class 4 at Monster High have measured themselves more accurately. Cut out each monster and draw another number line to place these monsters on.


1.32m


1.05m


1.97m


1.50m


1.76m


1.18m

Complete the statements by writing < or > in each box.

1.97m ☐ 1.32m 1.50m ☐ 1.76m 1.50m ☐ 1.05m

1.18m ☐ 1.05m 1.97m ☐ 1.18m 1.76m ☐ 1.32m

Day 3 – Have a go at these puzzles.

True or False?

$\frac{1}{3}$ of this shape is shaded.

Ted says,

I have one pizza cut into 6 equal pieces. I have eaten $\frac{6}{6}$ of the pizza.

Does Ted have any pizza left?
Explain your answer.

Complete the sentence

When a fraction is equal to a whole, the numerator and the denominator are _____

Use pictures to prove your answer.

Day 4 – Have a go at these word puzzles. You may need some help from a grown up. Remember to read the puzzle carefully, underline the important information and use the fraction wall or draw pictures to help you solve the puzzle.

Fractions — Nice and Spicy!

Equivalence

Recognise and show, using diagrams, equivalent fractions with small denominators

Which equivalent fractions do these represent?

Fractions — Nice and Spicy!

Solve Problems

Solve problems that include some of the other objectives

Which is greater?

$\frac{1}{4}$ of 20p or $\frac{1}{3}$ of 30p

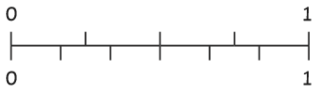
Fractions — It's getting hot!

Compare and Order

Compare and order unit fractions and fractions with the same denominators.

Which fraction is bigger? Add > or < to make the statement true

$\frac{1}{4}$ $\frac{1}{6}$



Fractions — It's getting hot!

Compare & Order

Order these fractions smallest to largest.

$\frac{7}{8}$ $\frac{3}{8}$ $\frac{1}{8}$ $\frac{6}{8}$

Fractions — Burning up!

Solve Problems

Solve problems that include some of the other objectives

Which is greater?

$\frac{3}{4}$ of 72p or $\frac{2}{3}$ of 75p

Explain why $\frac{3}{8} + \frac{1}{8} = \frac{1}{2}$

Fractions — Burning up!

Calculate

Add and subtract fractions with the same denominator

What is the difference between

$\frac{5}{11} + \frac{4}{11}$ and $\frac{6}{11} + \frac{1}{11}$?

A box contains 24 apples. Three of the apples are rotten and four apples have damaged skin. The rest are in good condition. What fraction of the box of apples are in good condition?

Day 5 – Instead of a Friday tables test, try the ultimate challenge. Do this each week, ask someone to time you and see how you improve.

Ultimate Times Table Challenge

Name: **Number Correct:**

Time: **Previous Score:**

1 × 1 =	11 × 12 =	10 × 12 =	3 × 5 =	1 × 9 =	7 × 1 =
1 × 5 =	1 × 2 =	2 × 5 =	4 × 1 =	2 × 9 =	4 × 5 =
3 × 1 =	3 × 3 =	9 × 12 =	3 × 7 =	6 × 1 =	3 × 11 =
1 × 4 =	4 × 3 =	1 × 3 =	11 × 7 =	4 × 9 =	3 × 9 =
5 × 1 =	8 × 9 =	5 × 5 =	8 × 12 =	2 × 7 =	5 × 11 =
10 × 3 =	6 × 3 =	1 × 11 =	2 × 11 =	11 × 11 =	1 × 7 =
5 × 3 =	9 × 7 =	7 × 5 =	7 × 7 =	7 × 9 =	10 × 5 =
8 × 1 =	10 × 1 =	5 × 7 =	6 × 5 =	3 × 8 =	8 × 11 =
9 × 1 =	9 × 3 =	3 × 10 =	9 × 9 =	4 × 7 =	8 × 7 =
11 × 9 =	6 × 8 =	6 × 11 =	10 × 7 =	10 × 9 =	10 × 11 =
11 × 1 =	11 × 3 =	11 × 5 =	2 × 3 =	4 × 11 =	8 × 5 =
12 × 5 =	12 × 12 =	5 × 4 =	12 × 7 =	12 × 9 =	12 × 11 =
2 × 1 =	8 × 3 =	6 × 7 =	1 × 12 =	1 × 10 =	7 × 3 =
2 × 2 =	9 × 11 =	2 × 6 =	2 × 8 =	2 × 12 =	7 × 6 =
11 × 4 =	3 × 4 =	5 × 9 =	12 × 2 =	2 × 4 =	1 × 6 =
4 × 2 =	4 × 4 =	4 × 6 =	6 × 9 =	4 × 10 =	9 × 5 =
5 × 2 =	10 × 2 =	12 × 1 =	5 × 8 =	3 × 6 =	7 × 11 =
7 × 4 =	6 × 4 =	6 × 6 =	12 × 3 =	6 × 2 =	8 × 4 =
7 × 2 =	9 × 2 =	2 × 10 =	5 × 10 =	1 × 8 =	5 × 6 =
7 × 8 =	6 × 10 =	12 × 10 =	12 × 4 =	8 × 10 =	8 × 2 =
10 × 4 =	9 × 4 =	3 × 12 =	9 × 8 =	12 × 8 =	8 × 6 =
11 × 6 =	9 × 6 =	10 × 6 =	3 × 2 =	4 × 12 =	9 × 10 =
11 × 2 =	6 × 12 =	5 × 12 =	11 × 8 =	11 × 10 =	8 × 8 =
7 × 12 =	10 × 10 =	12 × 6 =	7 × 10 =	4 × 8 =	10 × 8 =