Year 5 maths – Summer 2 Week 1 beginning: 01.06.20									
Theme	Fractions Making Equivalent Fractions	Fractions Making Equivalent Fractions	Fractions Making Equivalent Fractions	Fractions Making Equivalent Fractions	Fractions Making Equivalent Fractions				
Factual fluency (to aid fluency)	Write down all the equivalent fractions you know for $\frac{1}{2}$	Practice equivalent fractions <u>here</u>	Practice adding fractions <u>here</u>	Practice subtracting fractions from whole numbers <u>here</u>	Practice equivalent fractions here				
Problem/ activity of the day Remember, just like in class, you can still show the depth of your knowledge LINK	(Lesson 1 resources below) <u>MAKING LINKS</u> : Last term, we learnt how to find equivalent fractions by multiplying and dividing the numerator (top number) and the denominator (bottom number) by the same amount. <u>THINK: (support below)</u> Can you help me with this problem? What other fractions of this cake are possible? <u>SEE: (model below)</u> Watch the video here. <u>DO:</u> Answer the questions below.	(Lesson 2 resources below) <u>MAKING LINKS:</u> Yesterday we learnt how to find equivalent fractions by multiplying the numerator and denominator by the same amount. <u>THINK: (support below)</u> Can you help me with this problem? Three friends collected sweets at Halloween. <u>Jing</u> Sally Mia <u>1</u> $\frac{3}{122}$ kg $2\frac{1}{3}$ kg $1\frac{2}{6}$ kg Who collected the least amount of sweets? <u>SEE: (model below)</u> Watch the video <u>here</u> . <u>DO:</u> Answer the questions below.	(Lesson 3 resources below) <u>MAKING LINKS:</u> Yesterday we revised how to compare mixed numbers by making the denominators the same. <u>IHINK: (support below)</u> Can you help me with this problem? Two friends ate $\frac{4}{6}$ of one pizza and $\frac{1}{2}$ of another. How much pizza did they eat altogether? <u>SEE: (model below)</u> Watch the video here. <u>DO:</u> Answer the questions below.	(Lesson 4 resources below) <u>MAKING LINKS:</u> Yesterday we revised how to add fractions with different denominators by making the denominators the same first. <u>THINK: (support below)</u> Can you help me with this problem? Neil poured $\frac{2}{8}$ L of cranberry juice from a bottle that contained $\frac{1}{2}$ L. How much was left in the bottle? <u>SEE: (model below)</u> Watch the video here. <u>DO:</u> Answer the questions below.	(Lesson 5 resources below) <u>MAKING LINKS:</u> Yesterday we revised how to subtract fractions with different denominators by making the denominators the same first. <u>IHINK: (support below)</u> Can you help me with this problem? Can you help me with this problem? The shoes cost $2\frac{1}{2}$ times as much as the t-shirt. How much do the shoes cost? <u>SEE: (model below)</u> Watch the video <u>here</u> . <u>DO:</u> Answer the questions below.				
Methods, tips, clues & checks	Day 1 resources and answers (below)	Day 2 resources and answers (below)	Day 3 resources and answers (below)	Day 4 resources and answers (below)	Day 5 resources and answers (below)				

See below for resources to support you to THINK-SEE-DO



DAY 1 RESOURCES:





Which of these numbers are easily written as tenths and hundredths? Write a step by step guide to explain your thinking. $\frac{19}{50} \frac{2}{7} \frac{1}{5} \frac{4}{25} \frac{1}{2} \frac{7}{15} \frac{4}{5} \frac{3}{20}$

First, let's think about other ways we could express $\frac{1}{2}$. 1. Use a fractions wall: 2 $\frac{2}{4} = \frac{3}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ 2. We can multiply the numerator and the denominator by the same amount to find more equivalent fractions: We can continue using this method to find many more equivalent fractions such as $\frac{12}{24}$ or $\frac{50}{100}$ Now use this interactive fractions wall to investigate other ways of expressing $\frac{1}{4}$. We could also think about solving the problem in a different way.

SEE: Watch the video here.

We could also think about solving the problem in a different way. We could add up the total amount of cake and then use the total amount of cake to find equivalent fractions. To do this accurately, we need to make sure our denominators are the same.



DAY 2 RESOURCES:



DAY 3 RESOURCES:



DAY 4 RESOURCES:



Deepening:

Explain <u>two different ways</u> to solve this. Explain as clearly as you can showing your working, using pictures or words.

$$3\frac{1}{14} - 1\frac{3}{7} =$$

<u>SEE:</u> Watch the video <u>here</u>.

I need to subtract to find out how much is left in the bottle once some of the juice has been poured into the glass.



I need to make sure the denominators are the same, so I will turn $^{1\!/}_{2}$ into eighths. Then I can subtract.



I can also simplify 2/8 by dividing the numerator and denominator by the same



There was $\frac{1}{4}$ litre of juice left in the bottle, which I could also write as **0.25 I.** Alternatively, as I know there are 1000ml in 11, I can divide 1000 by 4 to find one quarter. This means there was **250ml left in the bottle**.



DAY 5 RESOURCES:

THINK:



DO:

1. Multiply to calculate the answer.

a. A large drink costs 1 $\frac{1}{2}$ times as much as a small drink. The small drink costs £2. How much does the large drink cost?

b. $1\frac{1}{r} \times 8 =$

c. $2\frac{2}{3} \times 6 =$

2. Multiply to calculate the answer.

a. A small bag of sweets weighs $1\frac{1}{2}$ kg. A big bag of sweets is 3 times as heavy as the small baa. What is the total weight of the two baas?

b. Ben's daily allowance is \pounds 6. Emily's daily allowance is $2\frac{1}{2}$ times as much as Ben's allowance. How much is Emily's daily allowance?

c. A bag of vegetables weighs 3kg. A bag of fruit weighs $2\frac{4}{r}$ times as much as the bag of vegetables. What is the total weight of the bag of vegetables and the bag of fruit?

d. 12 bottles of water are needed to fill a paddling pool to the brim. Each bottle has a capacity of $1\frac{3}{8}$ L. Find the capacity of the paddling pool.

Deepening:

Lucy is serving pizza at a party. Each person gets $\frac{3}{4}$ of a pizza. How many pizzas must be bought for the following number of guests: **a**. 4 guests **b**. 6 guests **c**. 8 guests **d**. 10 guests.

Now I add these two parts together. As I know there are 2 halves in one whole, $\frac{8}{2}$ is the same as four wholes.



ANSWERS

Day 1 Question 1	Day 2 Question 1	Day 3 Question 1	Day 4 Question 1	Day 5 Question 1
$a. \frac{3}{5} = \frac{6}{10}$	a. $3\frac{1}{12}$	a. $1\frac{1}{2}$	$a. \frac{1}{6}$	a. £3
b. $\frac{3}{5} = \frac{9}{15}$	b. $\frac{7}{14}$	b. $1\frac{1}{6}$	b. $\frac{6}{7}$	b. $9\frac{3}{5}$
C. $\frac{3}{5} = \frac{30}{100}$	Question 2 a. $3\frac{2}{3}$ $3\frac{8}{9}$ $5\frac{1}{9}$	o Question 2	C. $\frac{8}{21}$	c. 16
a. $\frac{1}{4} = \frac{1}{100}$ e. three fifteenths	13 17 3	a. $1\frac{2}{3}$	d. $\frac{7}{18}$	Question 2 a. 6kg
twenty hundredths	b. $\frac{15}{5}$ $\frac{17}{10}$ $1\frac{5}{5}$	b.1 $\frac{2}{5}$	e. $\frac{3}{10}$	b. £15
Question 2 a. $\frac{1}{5}$ $\frac{2}{10}$ $\frac{3}{15}$ $\frac{4}{20}$ $\frac{5}{25}$	Question 3 $2\frac{4}{7}$ $2\frac{13}{14}4\frac{1}{7}$	Question 3	f. $\frac{1}{3}$	c. $11\frac{2}{5}$ kg
1 2 3 4 5	Question 4	a. 1 ¹³ / ₂₀	$G \cdot \frac{2}{3}$	d. $16\frac{1}{2}L$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{17}{2}$ $3\frac{1}{2}$ $\frac{23}{12}$	b. $1\frac{2}{15}$	h. $\frac{1}{2}$	Deepening: a. 3 pizzas
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Deepening: Russell is incorrect because $\frac{3}{4} = \frac{6}{8}$ and $\frac{3}{8} < \frac{6}{8}$.	$\frac{\text{Deepening:}}{\frac{3}{6} + \frac{4}{5}}$	i. $\frac{4}{9}$ Question 2 $\frac{3}{4}$	b. 5 pizzas c. 6 pizzas d. 8 pizzas
	Therefore $\frac{3}{8} < \frac{3}{4}$ This is because the larger the denominator, the smaller the size of the fraction.	In order to make the smallest possible sum, the smallest numbers need to be the numerators and the largest numbers need to be the denominators. This is because the larger the <u>denominator</u> digit, the smaller the size of the fraction. The smaller the <u>numerator</u> digit, the smaller the amount of individual fractions.	⁴ Deepening: $1 \frac{9}{-14}$ One method would be to partition the mixed numbers into whole numbers and fractions and subtract individually. Another method would be to convert the mixed numbers into improper fractions and subtract.	

