Year 4 ~ Maths – Summer 2 Week 2

You will not need to print out the questions, use a piece of paper to write out the answers and do all of your working out.
Ask someone else who lives with you to mark it for you, then you can talk about your errors!
Looking forward to seeing your work!

Day 1 Activity	Day 2 Activity	Day 3 Activity	Day 4 Activity	Day 5 Activity
Try to spend 5 minutes a day practising your times tables. You can use times tables rock stars, or get an adult in your home to practice with you. Choose which days you will complete activities from the CGP booklets. When you have finished each one fill in the progress chart on p74.				

Mental Maths	CGP p2&3 Autumn Workout 1 Read through each question carefully before you answer.		CGP p4&5 Autumn Workout 2 Read through each question carefully before you answer.		CGP p6&7 Autumn Workout 3 Read through each question carefully before you answer.

	Adding Fractions	Subtracting Fractions	Problem solving – subtracting fractions	Fraction of a quantity	Fraction of a Quantity Problem solving
Problem / Activity of the day	Remember when you are adding fractions with the same denominator, you don't add the denominators together. You only add the numerators. So $\frac{3}{9}$ + $\frac{4}{9}$ = $\frac{7}{9}$ What is the answer to? $\frac{4}{10}$ + $\frac{3}{10}$ =	When you are subtracting fractions, the same rule applies. If they have the same denominator, you don't subtract the denominators. So $\frac{6}{8}$ – $\frac{3}{8}$ = $\frac{3}{8}$ What is the answer to? $\frac{7}{10}$ – $\frac{3}{10}$ =	First you need to use subtraction to complete the part/whole models. Next have a go and use your skills of subtracting fractions and time (a few weeks ago) to work out today's problems. Try not to work it out all in your head. Use paper to make jottings and write down your ideas and answers as you go along. Look back at your work from the last 2 days. To help you	You can use a fraction to work out the quantities of things you need. E.g. if you have a bag of sweets and 4 people to share them between then you need to divide them into quarters. So if I want to find; 1/5 of 20 sweets I would do 20 ÷ 5 = 4 You divide the whole quantity 20 by 5 (the denominator) So what would ¼ of 16 = 1/5 of 25 =	Today I would like you to apply what you have learnt to solve a problem. It looks confusing, but it isn't. Honestly! Remember that when they ask you what the mass is, it simply means how heavy something is. Read the problem carefully more than once. Look at the Bar models that you were practicing yesterday. Have a go! Don't give up!

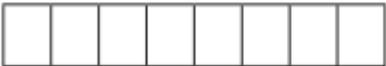| Resources you will need	Pencil / paper.	Pencil / paper	Pencil/ paper	Pencil / paper	Pencil / paper	
Tips / Clues or methods to help	<u>numerator</u> denominaator		Fractions are so much easier if you know your times tables and understand how to use them to divide. (We practised this)		READ the problem carefully	

Day 1

Complete the additions.

a) $\frac{1}{5} + \frac{2}{5} = \boxed{}$

b) $\frac{1}{5} + \frac{3}{5} = \boxed{}$

c) $\frac{3}{8} + \frac{3}{8} = \boxed{}$

d) $\frac{3}{8} + \frac{1}{8} = \boxed{}$

Tommy is adding fractions.

$\frac{3}{4} + \frac{3}{4} = \frac{6}{8}$

Explain why Tommy is incorrect.

_____

_____

_____

Day 2

Complete the subtractions.

a)
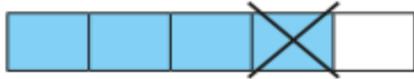
$\frac{4}{5} - \frac{1}{5} = \boxed{}$

b)

$\frac{4}{5} - \frac{2}{5} = \boxed{}$

c)

$\frac{5}{7} - \frac{3}{7} = \boxed{}$

d)

$\frac{7}{9} - \frac{4}{9} = \boxed{}$

Day 2 (cont..)

Complete the calculations.

a) $\frac{7}{10} - \frac{3}{10} = \boxed{}$

e) $\frac{9}{11} - \frac{3}{11} = \boxed{}$

b) $\frac{2}{3} - \frac{1}{3} = \boxed{}$

f) $\frac{6}{7} - \frac{4}{7} = \boxed{}$

c) $\frac{6}{6} - \frac{6}{6} = \boxed{}$

g) $\frac{8}{93} - \frac{2}{93} = \boxed{}$

d) $\frac{3}{4} - \frac{1}{4} = \boxed{}$

h) $\frac{10}{991} - \frac{3}{991} = \boxed{}$

Day 3

Complete the part-whole models.

a)

b)
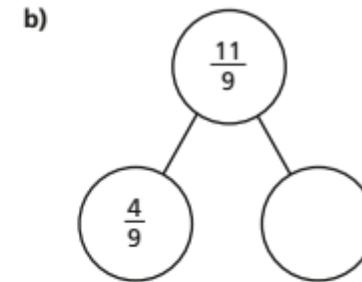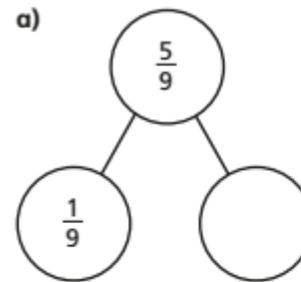
Complete the part-whole model in two different ways.
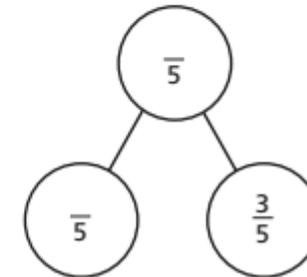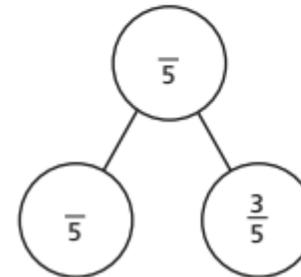
Alex and Annie are taking turns playing a computer game.

Annie plays for a total of $2\frac{1}{4}$ hours.

Annie plays for $\frac{3}{4}$ of an hour more than Alex.

How much time do they spend in total playing on the game?

Day 4

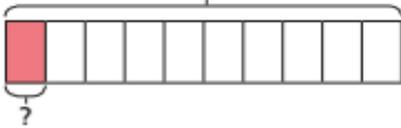Complete the number sentences.
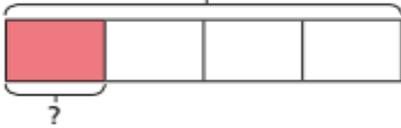
a) $\frac{1}{4}$ of 20 = ☐

20

?

d) $\frac{1}{4}$ of 40 = ☐

40

?

b) $\frac{1}{5}$ of 20 = ☐

20

?

e) $\frac{1}{8}$ of 40 = ☐

40

?

c) $\frac{1}{10}$ of 20 = ☐

20

?

f) $\frac{1}{8}$ of 80 = ☐

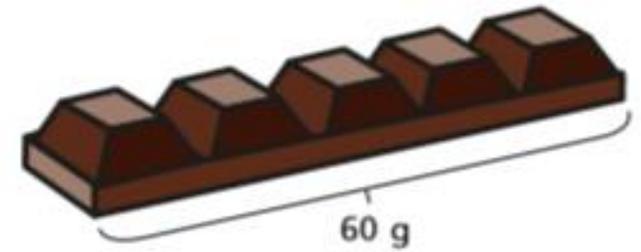80

?

g) $\frac{1}{3}$ of 36 = ☐

36

?

h) $\frac{1}{6}$ of 36 = ☐

36

?

Day 5

Filip has a chocolate bar with 5 equal pieces.

The chocolate bar weighs 60 g.

60 g

a) What is the mass of one piece?

The mass of one piece is ☐ g.

b) Filip eats $\frac{3}{5}$ of the bar of chocolate.

How many grams does Filip eat?

Filip eats ☐ g of chocolate.

Answers

Day 1

Complete the additions.

a) [bar model: 1 yellow, 2 blue, 2 white] $\frac{1}{5} + \frac{2}{5} = \boxed{\frac{3}{5}}$

b) [bar model: 1 yellow, 3 blue shaded, 1 white] $\frac{1}{5} + \frac{3}{5} = \boxed{\frac{4}{5}}$

c) [bar model: 3 blue, 3 yellow shaded, 1 white] $\frac{3}{8} + \frac{3}{8} = \boxed{\frac{6}{8}}$

d) [bar model: 3 yellow shaded, 3 white] $\frac{3}{8} + \frac{1}{8} = \boxed{\frac{4}{8}}$

Tommy is adding fractions.

$\frac{3}{4} + \frac{3}{4} = \frac{6}{8}$

Explain why Tommy is incorrect.

[bar models]
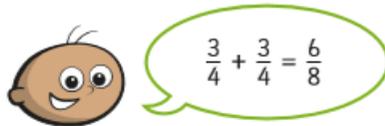
He has added the denominators when he shouldn't have. Each whole is still split into quarters so $\frac{3}{4} + \frac{3}{4} = \frac{6}{4}$

Day 2

Complete the subtractions.

a) [bar model] $\frac{4}{5} - \frac{1}{5} = \boxed{\frac{3}{5}}$

b) [bar model] $\frac{4}{5} - \frac{2}{5} = \boxed{\frac{2}{5}}$

c) [bar model] $\frac{5}{7} - \frac{3}{7} = \boxed{\frac{2}{7}}$

d) [bar model] $\frac{7}{9} - \frac{4}{9} = \boxed{\frac{3}{9}}$

Complete the calculations.

a) $\frac{7}{10} - \frac{3}{10} = \boxed{\frac{4}{10}}$ e) $\frac{9}{11} - \frac{3}{11} = \boxed{\frac{6}{11}}$

b) $\frac{2}{3} - \frac{1}{3} = \boxed{\frac{1}{3}}$ f) $\frac{6}{7} - \frac{4}{7} = \boxed{\frac{2}{7}}$
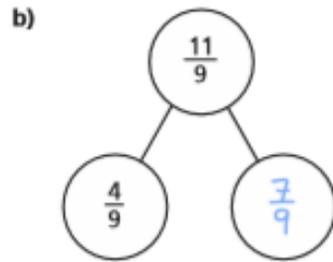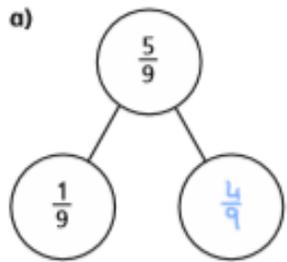
c) $\frac{6}{6} - \frac{6}{6} = \boxed{0}$ g) $\frac{8}{93} - \frac{2}{93} = \boxed{\frac{6}{93}}$
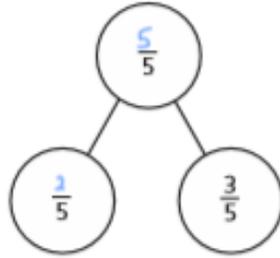
d) $\frac{3}{4} - \frac{1}{4} = \boxed{\frac{2}{4}}$ h) $\frac{10}{991} - \frac{3}{991} = \boxed{\frac{7}{991}}$
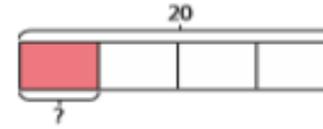
Day 3

Complete the part-whole models.

a)

Circle: $\frac{5}{9}$ → $\frac{1}{9}$ and $\frac{4}{9}$

b)

Circle: $\frac{11}{9}$ → $\frac{4}{9}$ and $\frac{7}{9}$

Complete the part-whole model in two different ways.

g)

Circle: $\frac{4}{5}$ → $\frac{1}{5}$ and $\frac{3}{5}$

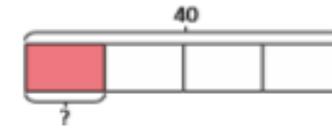Circle: $\frac{5}{5}$ → $\frac{2}{5}$ and $\frac{3}{5}$

Day 4

Complete the number sentences.

a) $\frac{1}{4}$ of 20 = 5

20

d) $\frac{1}{4}$ of 40 = 10

40

b) $\frac{1}{5}$ of 20 = 4

20

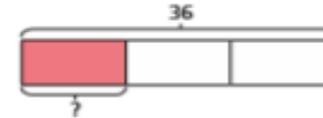e) $\frac{1}{8}$ of 40 = 5

40

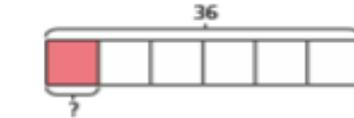c) $\frac{1}{10}$ of 20 = 2

20

f) $\frac{1}{8}$ of 80 = 10

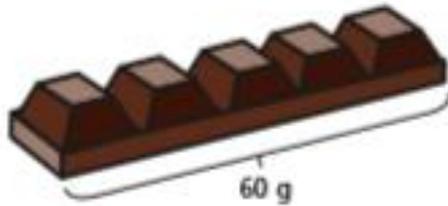80

g) $\frac{1}{3}$ of 36 = 12

36

h) $\frac{1}{6}$ of 36 = 6

36

Day 5

Filip has a chocolate bar with 5 equal pieces.

The chocolate bar weighs 60 g.

60 g

a) What is the mass of one piece?

The mass of one piece is [12] g.

b) Filip eats $\frac{3}{5}$ of the bar of chocolate.

How many grams does Filip eat?

Filip eats [36] g of chocolate.