

Monday 1st June 2020

Y4 Maths

Good morning, Year 4s,

I hope you enjoyed half term.

Here are your maths tasks for today:

1. Go to <https://whiterosemaths.com/homelearning/year-4/> and find Summer Term - Week 6 (week beginning 1st June) – Lesson 1 Watch the video '**Add 2 or more fractions**' and complete the worksheet below.
2. When you have finished, try the reasoning and problem solving questions. There are also some Mastery questions for you if you would like to try them.

(The answers are below so no peeping!)

3. Now go to Sumdog, where you will find another couple of challenges that I have set for you.

Add 2 or more fractions

1 Complete the additions.

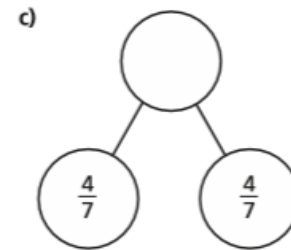
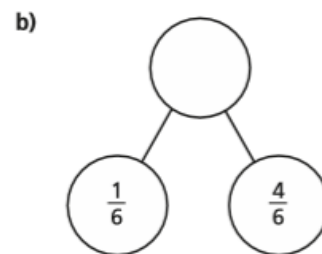
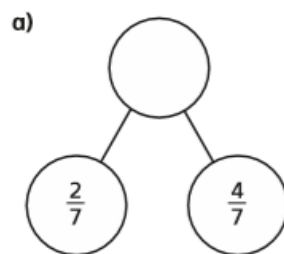
a)  $\frac{1}{5} + \frac{2}{5} = \square$

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

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

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

2 Complete the part-whole models.



d) Which part-whole model is the odd one out?

Explain your choice to a partner.

Did you both have the same answer?

3 Complete the additions.

a) $\frac{3}{7} + \frac{3}{7} = \square$

e) $\frac{8}{11} + \frac{6}{11} = \square = \square$

b) $\frac{3}{7} + \frac{4}{7} = \square = \square$

f) $\frac{4}{11} + \frac{4}{11} + \frac{6}{11} = \square = \square$

c) $\frac{4}{5} + \frac{3}{5} = \square = \square$

g) $\frac{3}{11} + \frac{3}{11} + \frac{8}{11} = \square = \square$

d) $\frac{8}{5} + \frac{6}{5} = \square = \square$

h) $\frac{3}{7} + \frac{3}{7} + \frac{8}{7} = \square = \square$

4

$$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$$

What could the missing numerators be?

Give four different possibilities.

$$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$$

$$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$$

$$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$$

$$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$$

5

Tommy is adding fractions.



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

Explain why Tommy is incorrect.



6

Complete the number sentences.

a) $\frac{3}{8} + \frac{\square}{8} = \frac{7}{8}$

e) $\frac{4}{9} + \frac{\square}{9} = \frac{13}{9} = 1\frac{\square}{9}$

b) $\frac{3}{8} + \frac{\square}{8} = 1$

f) $\frac{4}{9} + \frac{\square}{9} = \frac{\square}{9} = 1\frac{7}{9}$

c) $\frac{3}{16} + \frac{\square}{\square} = 1$

g) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 2$

d) $\frac{4}{9} + \frac{\square}{9} = \frac{11}{9} = 1\frac{\square}{9}$

h) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 3$

7

Rosie, Whitney and Teddy have each been for a walk.

Rosie walked $\frac{5}{8}$ km.

Whitney walked $\frac{7}{8}$ km.

Teddy walked $\frac{3}{8}$ km.

a) How far did they walk altogether?

 km

b) Jack also went for a walk.

Altogether the four children walked 3 km.

How far did Jack walk?

 km

Add 2 or More Fractions

Reasoning and Problem Solving

Zoe thinks she has got the correct answer for this calculation.

$$\frac{3}{9} + \frac{2}{9} = \frac{5}{18}$$



Is she correct? Explain why.

How many different ways can you find to solve the calculation?

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{11}{9}$$

Lennox and Brandon are solving:

$$\frac{6}{13} + \frac{5}{13} + \frac{7}{13}$$

Lennox



The answer is 1 and $\frac{5}{13}$

Brandon

The answer is $\frac{18}{13}$



Who do you agree with? Explain why.

Charity Run

Jayne and Maria decided to run a special race for charity.
The course was 20 Km long.
As part of their training Jayne ran another race which was $\frac{2}{5}$ th of the charity course and Maria ran in a race which was $\frac{4}{5}$ th of the charity course.
How far did the two girls run in their training event?

When mixing paint to make purple the paint manufacturer used $\frac{3}{4}$ as much red as blue, complete the table showing how much red was used with the blue:

Blue	
1 litre	
2 litres	
3 litres	
4 litres	
5 litres	
6 litres	

When making pancakes the baker uses half as much egg mixture as milk. Create another table to show how much egg mixture is used against 1 to 6 litres of milk.

Pocket Money

Dina and Harry both have the same amount of pocket money.
Dina spends $\frac{3}{5}$ th of hers on musical items and Harry spends $\frac{1}{5}$ th of his pocket money on sweets.
They have £12 left between them.
Work out how much pocket money each had to start with and how much did each spend on musical items and sweets respectively.

Building a house

A builder mixes cement by putting in $\frac{2}{7}$ th cement to $\frac{5}{7}$ th sand.

He mixes 70 litres of the mixture before adding water.
Cement costs £5 a litre and sand costs £2 a litre.
How much does the 70 litres mixture cost?

If the builder needs 210 litres of the mixture to build a house, how much would that cost?

Answers

Add 2 or More Fractions

Reasoning and Problem Solving

Zoe thinks she has got the correct answer for this calculation.

$$\frac{3}{9} + \frac{2}{9} = \frac{5}{18}$$



Is she correct? Explain why.

How many different ways can you find to solve the calculation?

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{11}{9}$$

Zoe is incorrect. Zoe has added the denominator as well as the numerator.

Any combination of ninths where the numerators total 11.

Lennox and Brandon are solving:

$$\frac{6}{13} + \frac{5}{13} + \frac{7}{13}$$

Lennox



The answer is 1 and $\frac{5}{13}$

Brandon

The answer is $\frac{18}{13}$



Who do you agree with? Explain why.

They are both correct. Lennox has added $\frac{6}{13} + \frac{7}{13}$ to make a whole and then added $\frac{5}{13}$