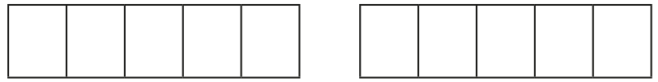
Year 5	Maths	English	Science	Art	History	Geography
wc 18th May	White Rose daily activities to be completed in maths books www.whiterosemaths.com/homelearning/year-5/ (Week 5 on website) Lesson 1: Add & subtract fractions Lesson 2: Add fractions Lesson 3: Add mixed numbers Lesson 4: Subtract mixed numbers Watch the videos and answer the questions in your books. Worksheets will be provided on the pages below for you to use. --- White Rose is also linked to BBC Bitesize so you could choose to complete the daily activities (in your maths book) from this website instead. https://www.bbc.co.uk/bitesize/dailylessons _____ Plus TT Rockstars 5 times a week MyMaths activities SAMLearning activities Sumdog activities	Lexia - 30 mins x 5 (If you have a login) IDL activities SPAG.com activities SAMLearning activities Complete the Year 5 English daily activities on BBC bitesize – looks at a range of grammar – these can be done in your workbooks. https://www.bbc.co.uk/bitesize/dailylessons <u>Reading</u> Read a piece of non-fiction information. It could be linked to your Geography poster research. <u>Writing</u> Write a paragraph about what is happening in this image. Remember to use metaphors and similes. 	This week's topic from BBC bitesize is: **'What are the stages of a plants life cycle?'** https://www.bbc.co.uk/bitesize/topics/zgssgk7/articles/zyv3jty This week choose between finding out about Magnets through the BBC Science lesson on Wednesday or recap on Gravity through Sam learning. 	Find out what ancient greeks wore. It could be an ancient greek woman, ancient greek man or an ancient greek warrior. When you have researched your chosen person, draw a diagram labelling their clothes. You can find out more about this on BBC Bitesize **'What was it like to live in an ancient Greek family?'** https://www.bbc.co.uk/bitesize/topics/z87tn39/articles/zc8yb9q If you need to speak to Miss Porter, Mrs King or Mrs Bateman please email us on yr5teacher@unity.fcat.org.uk We look forward to seeing your work either by email or on twitter @UnityPhase3		**Royal Geographical Society Competition!** Thank you for sharing some of your posters for 'The World beyond my window' on the yr5 email. We would love to see some more. If you require any more information the full details are on the school website and some ideas are on the yr5 plan from 4th May or email the yr5 email address below and we will get in touch.  

Add and subtract fractions

1 Complete the calculations.

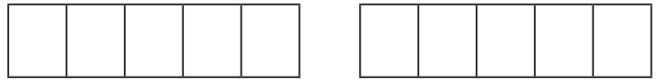
Use the bar models to help you.

a)



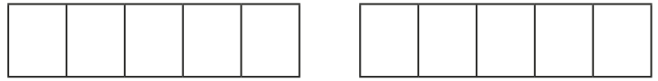
$\frac{4}{5} + \frac{3}{5} = \square = \square$

b)



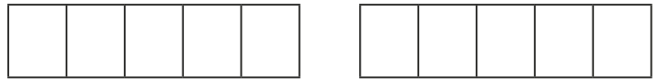
$\frac{6}{5} + \frac{3}{5} = \square = \square$

c)



$\frac{8}{5} - \frac{6}{5} = \square$

d)



$\frac{9}{5} - \frac{3}{5} = \square = \square$

2 Complete the calculations.

a) $\frac{4}{7} + \frac{2}{7} = \square$

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

c) $\frac{4}{7} + \frac{4}{7} = \square = \square$

d) $\frac{8}{7} - \frac{3}{7} = \square$

e) $\frac{7}{9} + \frac{8}{9} = \square = \square$

f) $\frac{17}{9} - \frac{8}{9} = \square = \square$

g) $\frac{16}{9} - \frac{8}{9} = \square$

h) $\frac{7}{9} + \frac{2}{9} + \frac{8}{9} = \square = \square$

i) $\frac{7}{15} + \frac{2}{15} + \frac{8}{15} = \square = \square$

j) $\frac{7}{15} - \frac{2}{15} + \frac{8}{15} = \square$

3 $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$

What could the missing numerators be?

Give six different possibilities.

$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$ $\quad$ $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$

$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$ $\quad$ $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$

$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$ $\quad$ $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$

4 Dora has $2\frac{3}{8}$ litres of juice.

She pours out $\frac{9}{8}$ litres of juice.

How many litres of juice does she have left?

Dora has ☐ litres left.

5 Fill in the missing numerators.

a) $\frac{3}{8} + \frac{\square}{8} = \frac{13}{8}$

b) $\frac{13}{8} - \frac{\square}{8} = \frac{7}{8}$

c) $\frac{13}{8} - \frac{\square}{8} = 1$

d) $\frac{11}{9} + \frac{\square}{9} = \frac{22}{9} = 2\frac{\square}{9}$

e) $\frac{11}{9} + \frac{\square}{9} = \frac{\square}{9} = 2\frac{2}{9}$

f) $\frac{22}{9} - \frac{\square}{9} = \frac{\square}{9} = 2\frac{2}{9}$

g) $\frac{4}{7} + \frac{\square}{7} + \frac{4}{7} = 2$

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

i) $\frac{6}{7} + \frac{\square}{7} + \frac{6}{7} = 2$

j) $\frac{14}{7} + \frac{\square}{7} + \frac{4}{7} = 3$

k) $\frac{15}{7} + \frac{\square}{7} + \frac{5}{7} = 3$

i) $\frac{16}{7} + \frac{\square}{7} + \frac{6}{7} = 4$

Compare answers with a partner. What do you notice?

6 Here are some fraction cards.

$\frac{9}{8}$	$\frac{13}{8}$	$\frac{1}{8}$	$\frac{7}{8}$	$\frac{3}{8}$	$1\frac{7}{8}$

Use the cards to write pairs of fractions with a total of 2

☐ + ☐ = 2

☐ + ☐ = 2

☐ + ☐ = 2

7 Annie and Dexter both have a skipping rope.

Annie's rope is $\frac{3}{4}$ m shorter than Dexter's rope.

The ropes are $\frac{13}{4}$ m altogether.

How long is each skipping rope?

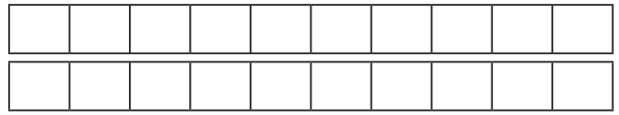
Annie's rope is ☐ m long. Dexter's rope is ☐ m long.

Add fractions

1 Complete the calculations.

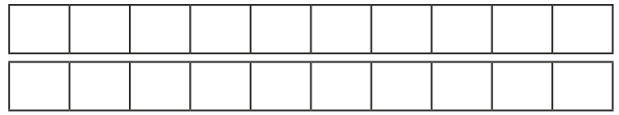
Use the bar models to help you.

a)



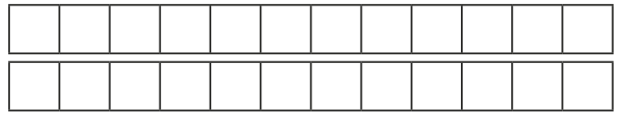
$\frac{1}{2} + \frac{7}{10} = \square = \square$

b)



$\frac{1}{2} + \frac{3}{10} + \frac{1}{5} = \square = \square$

c)



$\frac{2}{3} + \frac{5}{6} + \frac{1}{12} = \square = \square$

2 Complete the additions.

a) $\frac{4}{5} + \frac{7}{20} = \square = \square$

b) $\frac{5}{4} + \frac{7}{20} = \square = \square$

c) $\frac{3}{4} + \frac{5}{12} = \square = \square$

d) $\frac{4}{3} + \frac{5}{12} = \square = \square$

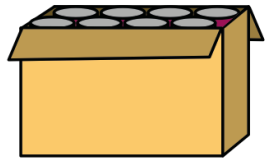
e) $\frac{3}{5} + \frac{11}{15} = \square = \square$

f) $\frac{5}{3} + \frac{11}{15} = \square = \square$

3 Match the additions that have the same answer.

$\frac{3}{5} + \frac{9}{20}$	$\frac{16}{20} + \frac{9}{20}$
$\frac{3}{4} + \frac{9}{20}$	$\frac{12}{20} + \frac{9}{20}$
$\frac{4}{5} + \frac{9}{20}$	$\frac{14}{20} + \frac{9}{20}$
$\frac{7}{10} + \frac{9}{20}$	$\frac{15}{20} + \frac{9}{20}$

4 Dexter has some tins of food. There are four types of food: beans, sweetcorn, soup and tomatoes.



- The total weight of all the tins is 2 kg.
- The tins of beans weigh $\frac{2}{3}$ kg.
- The tins of sweetcorn weigh $\frac{5}{12}$ kg.
- The tins of soup weigh $\frac{1}{4}$ kg.

a) Work out the total weight of the tins of beans, sweetcorn and soup.

b) How much do the tins of tomatoes weigh?

5 Complete the addition pyramids.

a)

	$\frac{7}{6}$	
$\frac{2}{3}$		$\frac{1}{3}$

b)

	$\frac{5}{6}$	
$\frac{2}{3}$		$\frac{2}{3}$

c)

		$\frac{1}{2}$
$\frac{1}{5}$		$\frac{3}{10}$

6 What could the three missing numerators be?

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

Give three different possibilities.

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

Add mixed numbers

1 Teddy and Mo are adding mixed numbers.

Teddy

$3\frac{1}{4} + 2\frac{5}{8} = 5 + \frac{7}{8} = 5\frac{7}{8}$

$3\frac{1}{4} + 2\frac{5}{8} = \frac{26}{8} + \frac{21}{8} = \frac{47}{8} = 5\frac{7}{8}$

Mo

Whose method do you prefer? _____

Talk about it with a partner.

2 Complete the calculations.

a) $1\frac{2}{5} + 2\frac{3}{10} =$ ☐

b) $2\frac{2}{5} + 2\frac{3}{10} =$ ☐

c) $1\frac{3}{4} + 3\frac{3}{20} =$ ☐

d) $1\frac{3}{16} + 4\frac{3}{4} =$ ☐

e) $4\frac{1}{4} + 2\frac{11}{16} =$ ☐

f) $1\frac{4}{15} + 3\frac{2}{3} =$ ☐

3

$2\frac{3}{5} + 1\frac{7}{10} = 3 + \frac{13}{10} = 3\frac{13}{10}$

How can Ron improve his answer?

_____

_____

4 Complete the additions.

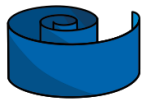
a) $2\frac{3}{4} + 3\frac{5}{12} =$ ☐

b) $3\frac{2}{3} + 2\frac{7}{12} =$ ☐

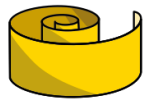
c) $5\frac{1}{6} + 3\frac{11}{12} =$ ☐

d) $6\frac{7}{15} + 3\frac{3}{5} =$ ☐

5 A blue ribbon is $2\frac{4}{9}$ metres long.



A yellow ribbon is $3\frac{2}{3}$ metres long.

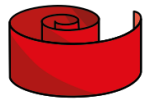


a) What is the total length of the blue and yellow ribbon?

☐ m

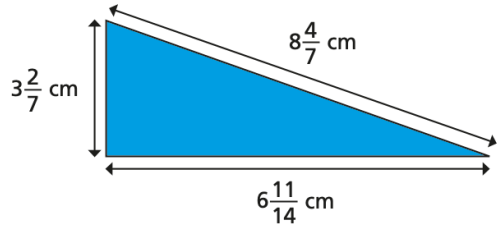
b) A red ribbon is $1\frac{5}{18}$ metres longer than the yellow ribbon.

How long is the red ribbon?



☐ m

6 Calculate the perimeter of the triangle.



☐ cm

7 Complete the calculation in three different ways.

☐ $\frac{\square}{5}$ + ☐ $\frac{\square}{15}$ = 6 + $\frac{11}{15}$ = ☐

☐ $\frac{\square}{5}$ + ☐ $\frac{\square}{15}$ = 6 + $\frac{11}{15}$ = ☐

☐ $\frac{\square}{5}$ + ☐ $\frac{\square}{15}$ = 6 + $\frac{11}{15}$ = ☐

Compare answers with a partner.

8 Here are some number cards.

$3\frac{1}{6}$	$2\frac{11}{12}$	$2\frac{5}{6}$	$3\frac{5}{6}$	$4\frac{1}{12}$	$4\frac{1}{3}$

a) What is the greatest total you can make with two cards?

☐

b) What is the smallest total you can make with two cards?

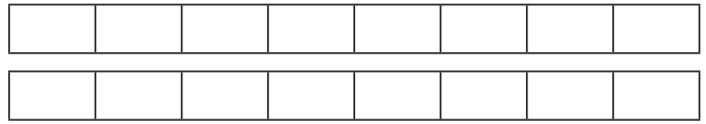
☐

Subtract mixed numbers

1 Complete the subtractions.

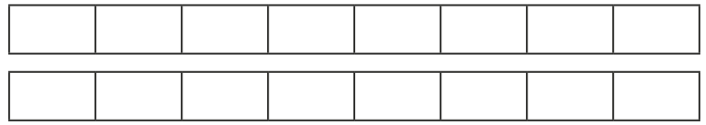
Use the bar models to help you.

a)



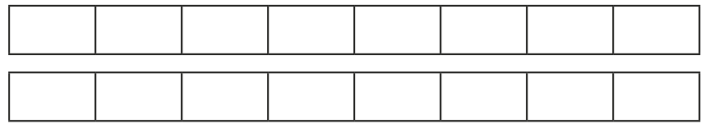
$\frac{15}{8} - \frac{1}{2} = \square$

b)



$1\frac{7}{8} - \frac{3}{4} = \square$

c)

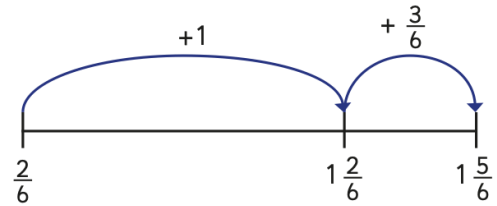


$1\frac{1}{2} - \frac{3}{8} = \square$

2 Dexter and Whitney are using number lines to work out $1\frac{5}{6} - \frac{1}{3}$

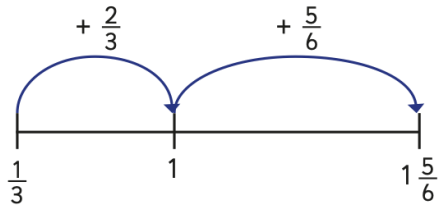
Dexter's method

$\frac{1}{3} = \frac{2}{6}$



$1 + \frac{3}{6} = 1\frac{1}{2}$

Whitney's method

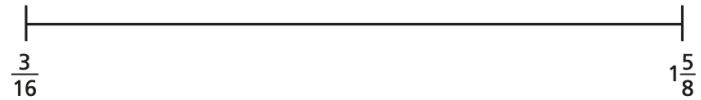


$\frac{2}{3} = \frac{4}{6}$

$\frac{4}{6} + \frac{5}{6} + \frac{9}{6} = 1\frac{1}{2}$

What is the same and what is different about these methods?

Use one of the methods to work out $1\frac{5}{8} - \frac{3}{16}$



$1\frac{5}{8} - \frac{3}{16} = \square$

3 Complete the subtractions.

a) $3\frac{1}{4} - \frac{5}{24} = \square$

b) $3\frac{3}{16} - \frac{1}{8} = \square$

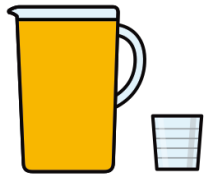
c) $2\frac{5}{6} - \frac{2}{3} = \square$

d) $7\frac{5}{6} - \frac{13}{24} = \square$

e) $4\frac{4}{9} - \frac{4}{27} = \square$

f) $6\frac{11}{12} - \frac{3}{4} = \square$

4 A jug contains $1\frac{3}{5}$ litres of orange juice.



Eva pours $\frac{4}{15}$ litres into a glass.

How much orange juice is left in the jug?

There are $\square$ litres of orange juice left in the jug.

5 Find three different ways to complete the calculation.

$3\frac{\square}{5} - \frac{\square}{20} = 3\frac{1}{20}$

$3\frac{\square}{5} - \frac{\square}{20} = 3\frac{1}{20}$

$3\frac{\square}{5} - \frac{\square}{20} = 3\frac{1}{20}$

Are there any other ways to complete this calculation?

6 Three children take part in throwing competitions.

Here is the table of results.

	Javelin	Shot Put	Discus
Dexter	$15\frac{1}{4}$ m	$7\frac{5}{12}$ m	
Amir	$13\frac{3}{8}$ m		$12\frac{7}{8}$ m
Annie		9 m	$11\frac{5}{12}$ m

Use the clues to complete the table.

- Annie's javelin throw is $\frac{11}{12}$ m less than Dexter's.
- Amir's shot put throw is $\frac{3}{4}$ m less than Annie's.
- Dexter's discus throw is $\frac{1}{2}$ m less than Amir's