Daily Learning Task 14

Year 6

Maths:

Focus: Fractions Revision

Look at the examples to remind yourself how to work with fractions then complete the sheets.

Extra Tasks –

Remember to visit Maths Flex

Your username is your 0092014AM (your initials) then your password is your unique 4 digits followed by your initials.

https://www.activelearnprimary.co.uk/login?e=-1&c=0#bugclub_contextual

English:

Writing Task: Using your knowledge of mountains from last terms learning can you write an adventure story about an explorer that sets off on a mountain adventure. Use the checklists and word mats below to help you. Can you end with a cliff-hanger that leaves your reader in suspense and wanting to know what happens next?

Extra Tasks – Edit your work and see how many mountain vocabulary words can you include in your writing?

Remember to visit Reading Plus

Your username is your first name and last name initial E.g. AnnaM and your password is your 4 digits

https://student.readingplus.com/seereader/api/sec/login

Other:

Focus: Art

Can you find examples on the internet of Greek Vases? Draw or print a picture of a Greek vase and label it to show what you notice. What images can you see? What patterns are there? Can you find out what the meanings are behind the pictures?

Ongoing tasks:

Reading Plus (see link above)

Maths Flex (see link above)

TT Rockstars https://play.ttrockstars.com/auth/school/student

Spelling Shed https://www.edshed.com/en-gb/login?return_url=https%3A%2F%2Fwww.spellingshed.com%2Fen-gb%2F

Useful links:
Joe Wicks exercise https://www.youtube.com/channel/UCAxW1XT0iEJo0TYlRfn6rYQ Purple Mash – Why not log on and play some games? https://www.purplemash.com/sch/beaumont Visit the YouTube link and watch some grammar videos – they are very catchy! https://www.youtube.com/channel/UCF3idoSaI6I-2bJcYtq4rvQ Relax your mind and body with some yoga! https://www.youtube.com/user/CosmicKidsYoga

Fractions

Key Vocabulary
numerator
denominator
proper fraction
improper fraction
factor
highest common multiple
lowest common multiple
equivalents
common numerator
common denominator
decimal equivalent
simplify
simplest form
mixed number
whole number
mixed number

Simplify Fractions

$\frac{9}{12}$

Factors of 9:
1, 3, 9

Factors of 12:
1, 2, 3, 4, 6, 12

$\frac{9}{12} \overset{\div 3}{=} \frac{3}{4}$

Compare and Order Fractions

Use the Common Denominator

Multiples of 5:
5, 10, 15

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

Multiples of 3:
3, 6, 9, 12, 15

$\frac{3}{5} \overset{\times 3}{=} \frac{9}{15}$

$\frac{9}{15} < \frac{10}{15}$

$\frac{2}{3} \overset{\times 5}{=} \frac{10}{15}$

Adding and Subtracting Proper Fractions

Same Denominators

$\frac{4}{7}+\frac{2}{7}=\frac{6}{7}$

$\frac{8}{11}-\frac{3}{11}=\frac{5}{11}$

Different Denominators

$\frac{2}{7}+\frac{3}{5}$

Multiples of 7: 7, 14, 21, 28, **35**
Multiples of 5: 5, 10, 15, 20, 25, 30, **35**

$\frac{2}{7}=\frac{10}{35}, \frac{3}{5}=\frac{21}{35}$

$\frac{10}{35}+\frac{21}{35}=\frac{31}{35}$

$\frac{9}{10}-\frac{1}{4}$

Multiples of 10: 10, **20**
Multiples of 4: 4, 8, 12, 16, **20**

$\frac{9}{10}=\frac{18}{20}, \frac{1}{4}=\frac{5}{20}$

$\frac{18}{20}-\frac{5}{20}=\frac{13}{20}$

Adding and Subtracting Mixed Numbers

Add or subtract the whole numbers and fractions separately.

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

$2+1=3$

$\frac{2}{5}+\frac{3}{10}=\frac{4}{10}+\frac{3}{10}=\frac{7}{10}$

$3+\frac{7}{10}=3\frac{7}{10}$

$2\frac{1}{2}-1\frac{1}{4}$

$2-1=1$

$\frac{1}{2}-\frac{1}{4}=\frac{2}{4}-\frac{1}{4}=\frac{1}{4}$

$1+\frac{1}{4}=1\frac{1}{4}$

Convert the mixed numbers to improper fractions.

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

$2\frac{2}{5}=\frac{12}{5}$ $\quad 1\frac{3}{10}=\frac{13}{10}$

$\frac{12}{5}+\frac{13}{10}=\frac{24}{10}+\frac{13}{10}=\frac{37}{10}$

$\frac{37}{10}=3\frac{7}{10}$

$2\frac{1}{2}-1\frac{1}{4}$

$2\frac{1}{2}=\frac{5}{2}$ $\quad 1\frac{1}{4}=\frac{5}{4}$

$\frac{5}{2}-\frac{5}{4}=\frac{10}{4}-\frac{5}{4}=\frac{5}{4}$

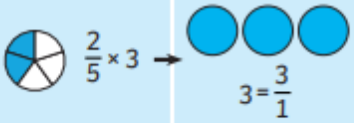
$\frac{5}{4}=1\frac{1}{4}$

Multiplying Proper Fractions

Multiplying Fractions by Fractions

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

Multiplying Fractions by Whole Numbers



$\frac{2}{5}\times\frac{3}{1}=\frac{6}{5}=1\frac{1}{5}$

Dividing Fractions by Whole Numbers

$\frac{2}{5}\div 2=\frac{1}{5}$

Multiplication and division are the inverse of one another so:

$\div 2$ is the same as $\times\frac{1}{2}$

$\frac{2}{5}\times\frac{1}{2}=\frac{2}{10}$

Simplifying Fractions

Using common factors, simplify the following fractions to their simplest form:

$\frac{4}{16} = \_\_\_\_$ $\frac{14}{21} = \_\_\_\_$ $\frac{3}{33} = \_\_\_\_$

$\frac{6}{15} = \_\_\_\_$ $\frac{18}{34} = \_\_\_\_$ $\frac{14}{16} = \_\_\_\_$

$\frac{9}{12} = \_\_\_\_$ $\frac{36}{45} = \_\_\_\_$ $\frac{9}{18} = \_\_\_\_$

$\frac{12}{20} = \_\_\_\_$ $\frac{42}{64} = \_\_\_\_$ $\frac{15}{25} = \_\_\_\_$

Simplify Fractions Using the Highest Common Factor

Simplify these fractions into the simplest form,
writing the highest common factor in the table. The first one is done for you.

Fraction	Highest Common Factor	Simplified Fraction
$\frac{4}{12}$	4	$\frac{1}{3}$
$\frac{3}{9}$		
$\frac{6}{8}$		
$\frac{10}{15}$		
$\frac{8}{14}$		
$\frac{10}{12}$		
$\frac{6}{18}$		
$\frac{9}{18}$		

Fraction	Highest Common Factor	Simplified Fraction
$\frac{16}{20}$		
$\frac{15}{18}$		
$\frac{18}{32}$		
$\frac{24}{32}$		
$\frac{15}{35}$		
$\frac{14}{22}$		
$\frac{6}{27}$		
$\frac{36}{63}$		

Use Common Multiples

Express all the fractions in each set in fractions with the same denominator.

1.

$\frac{3}{4}$	$\frac{2}{5}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{7}{10}$
$\frac{\quad}{20}$	$\frac{\quad}{20}$	$\frac{\quad}{20}$	$\frac{\quad}{20}$	$\frac{\quad}{20}$

2.

$\frac{1}{3}$	$\frac{3}{4}$	$\frac{1}{6}$	$\frac{5}{6}$	$\frac{1}{4}$
$\frac{\quad}{12}$	$\frac{\quad}{12}$	$\frac{\quad}{12}$	$\frac{\quad}{12}$	$\frac{\quad}{12}$

3.

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

Express Fractions

Express the following fractions with the same denominator.

$\frac{3}{4}$ and $\frac{7}{8}$	$\frac{6}{8}$ and $\frac{7}{8}$	$\frac{1}{6}$ and $\frac{7}{18}$	— and —	$\frac{3}{5}$ and $\frac{11}{20}$	— and —
$\frac{3}{8}$ and $\frac{17}{24}$	— and —	$\frac{1}{2}$ and $\frac{13}{16}$	— and —	$\frac{7}{12}$ and $\frac{5}{6}$	— and —
$\frac{7}{15}$ and $\frac{4}{5}$	— and —	$\frac{3}{16}$ and $\frac{3}{4}$	— and —	$\frac{17}{20}$ and $\frac{7}{10}$	— and —
$\frac{1}{8}$ and $\frac{7}{32}$	— and —	$\frac{5}{12}$ and $\frac{19}{36}$	— and —	$\frac{7}{10}$ and $\frac{23}{30}$	— and —
$\frac{4}{21}$ and $\frac{2}{3}$	— and —	$\frac{7}{24}$ and $\frac{1}{6}$	— and —	$\frac{8}{27}$ and $\frac{4}{9}$	— and —

Compare Fractions

Use the symbols < > or = to compare these fractions.
You may need to rewrite the fractions with the same denominator.

1. $\frac{1}{3}$ ☐ $\frac{1}{4}$

2. $\frac{1}{5}$ ☐ $\frac{3}{15}$

3. $\frac{3}{5}$ ☐ $\frac{7}{10}$

4. $\frac{2}{7}$ ☐ $\frac{3}{8}$

5. $\frac{1}{2}$ ☐ $\frac{4}{8}$

6. $\frac{5}{3}$ ☐ $\frac{27}{16}$

7. $\frac{8}{9}$ ☐ $\frac{47}{53}$

8. $\frac{24}{11}$ ☐ $\frac{51}{23}$

9. $\frac{22}{13}$ ☐ $\frac{7}{4}$

10. $\frac{56}{63}$ ☐ $\frac{77}{99}$

Order Fractions

Order these fractions from smallest to largest.
You may wish to write the fractions with a common denominator.

1. $\frac{3}{8}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$ $\frac{7}{8}$

$\frac{\quad}{8}$ $\frac{\quad}{8}$ $\frac{\quad}{8}$ $\frac{\quad}{8}$ $\frac{\quad}{8}$

smallest ___ ___ ___ ___ ___ largest

2. $\frac{7}{12}$ $\frac{11}{12}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{5}{6}$

$\frac{\quad}{12}$ $\frac{\quad}{12}$ $\frac{\quad}{12}$ $\frac{\quad}{12}$ $\frac{\quad}{12}$

smallest ___ ___ ___ ___ ___ largest

3. $\frac{2}{7}$ $\frac{1}{4}$ $\frac{4}{9}$ $\frac{1}{3}$ $\frac{1}{8}$

___ ___ ___ ___ ___

smallest ___ ___ ___ ___ ___ largest

Adventure Story

It was just an ordinary day...	abandoned	alarmed	ancient	awful	frightened
The rain began to pour...	bizarre	bold	bravely	chilling	mysterious
When it was all over...	creature	crumbling	dangerous	darkness	strange
As the day drew to a close...	disastrous	discover	disturbing	eerie	wicked
Suddenly...	enemy	escape	evil	familiar	
After the rain...	furiously	glorious	hero	magical	
The next day...	perilous	rapidly	shadowy	splendid	
Without warning...	sturdy	swooped	terrifying	weird	
	beastly	conscious	determined	enchanted	

after	because	who	
before	if	whose	
	while	which	
	when	since	

bellowed	boomed	laughed	stuttered
mumbled	muttered	replied	whispered
roared	screamed	shrieked	yelled

Adventure Story Checklist

Did I include...	✓
a title to make the reader want to read my story?	
a beginning to introduce character(s) and a setting?	
a build-up to give hints and clues about what is going to happen?	
a dilemma where something goes wrong?	
a resolution where the character(s) solve the dilemma?	
an ending to close the story?	
dialogue to advance the action?	
short, snappy sentences used for effect?	
cliffhanger questions?	

Mountains Word Mat

What Can I Describe?	How Can I Describe It?	What Can It Do?	Examples of Effective Phrases
altitude	alpine	adventure	The rolling hillside gave way to a sudden, steep incline...
cliffs	ancient	ascend	
clouds	conical	climb	...dominates the landscape...
crags	craggy	conquer	
craters	desolate	descend	...the unforgiving, snow-capped terrain...
foothills	distant	dwell	
highlands	enormous	explore	... ancient and impressive, the peak surveyed the people below...
hillside	great	hike	
peaks	hilly	loom	...sparkling and joyous, water cascaded over the ridges...
ridges	impassable	overlook	
rocks	impressive	pass	...monstrous ridges towered over the climbers...
slopes	imposing	rise	
streams	lonely	roll	
terrain	mighty	scramble	
trees	monstrous	stand	
weather	mountainous	ski	
	sheer	tower	
	snow-capped	view	
	steep	watch	
	towering