



HOME LEARNING

YEAR 6

18/06/2020

Morning Message

Good morning Year 6,

Lots of riddles for you today. These next two have the same answer!

From Zahra: *Where can you find cities, shops, towns and streets, but no people?*

From George: *I have cities but no houses, mountains but no trees, water but no fish. What am I?*

From Vahini: *I have an eye but cannot see. What am I?*

Today's joke: *What did the pencil sharpener say to the pencil? Stop going around in circles and get to the point!*

The answer to yesterday's anagram: Scotland

Today's anagram: NAZE WANDLE

Have a great day,

Mr Larke and Ms Yerlisu

Week's Picture



Writing

Thursday LO: to solve the problem

Today you will be writing solution to the chase. How do Tom and Oscar escape or thwart the chasers?

In my example on Monday, they meet an old woman who helps them to fight them off whilst they wait for the police.

But it's up to you!

Tips for success:

- use variety of descriptive vocabulary in the scene
- resolve the chase scene with an ending
- could you experiment with higher-level punctuation at any point?

Reading

Day 4: Pupil questions

Write the following questions:

- 3 on-the-line
- 2 between-the-lines
- 1 beyond the text

If possible, ask a family member to answer them!

Maths

In this lesson, you will extend your knowledge of dividing and multiplying mixed numerals and combining all operations. Also, you will solve problems which involve fractions.

Operations with mixed numerals

Just change to improper fractions then use the same methods as shown earlier.

Simplify these calculations involving mixed numerals

Addition and subtraction

(i) $1\frac{2}{3} + 2\frac{1}{6}$



Or just add the whole numbers and the fractions separately.

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

$$1\frac{2}{3} + 2\frac{1}{6} = \frac{5}{3} + \frac{13}{6}$$

$$= \frac{10}{6} + \frac{13}{6}$$

$$= \frac{23}{6}$$

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

Change to improper fractions

Equivalent fractions with LCM denominators

Simplify to mixed numeral

(ii) $4\frac{1}{5} - 1\frac{1}{2}$

$$4\frac{1}{5} - 1\frac{1}{2} = \frac{21}{5} - \frac{3}{2}$$

$$= \frac{42}{10} - \frac{15}{10}$$

$$= \frac{27}{10}$$

$$= 2\frac{7}{10}$$

Change to improper fractions

Equivalent fractions with LCM denominators

Simplify to mixed numeral

Multiplication and division

(iii) $1\frac{3}{4} \times 2\frac{1}{3}$

$$1\frac{3}{4} \times 2\frac{1}{3} = \frac{7}{4} \times \frac{7}{3}$$

Change to improper fractions

$$= \frac{49}{12}$$

Multiply tops and bottoms together

$$= 4\frac{1}{12}$$

Simplify to mixed numeral

(iv) $1\frac{1}{6} \div 2$

$$1\frac{1}{6} \div 2 = \frac{7}{6} \div \frac{2}{1}$$

Change to improper fractions

$$= \frac{7}{6} \times \frac{1}{2}$$

Flip second fraction and change to multiply

$$= \frac{7}{12}$$

Multiply numerators and denominators together



Remember

$2 = \frac{2}{1}, 3 = \frac{3}{1}$, etc



Operations with mixed numerals

1 Simplify these additions and subtractions without the aid of a calculator:

a $2\frac{1}{4} + 4\frac{2}{3}$

b $2\frac{1}{4} - 1\frac{2}{5}$

c $5\frac{3}{5} - 2\frac{1}{2}$

d $3\frac{1}{6} + 1\frac{1}{5}$

2 Simplify these without the aid of a calculator:

a $4 \times 1\frac{2}{5}$

b $4\frac{3}{7} \times 2$

c $1\frac{3}{4} \times 3\frac{1}{2}$

d $5\frac{1}{3} \times 1\frac{4}{5}$

3 Simplify these divisions without the aid of a calculator:

a $3 \div 2\frac{1}{2}$

b $1\frac{2}{3} \div 3$

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

d $5\frac{1}{2} \div 1\frac{2}{3}$



Combining all the operations

Earn yourself an awesome passport stamp by trying these trickier questions without using a calculator.

1 Simplify $\frac{1}{7} + 6\frac{3}{5} \times 1\frac{1}{2}$ psst: remember your order of operations



2 Simplify $4\frac{1}{2} \div 3\frac{5}{6} \times 5\frac{1}{3}$ psst: work left to right... so do the division first

3 Simplify this shaded diagram into a single fraction. psst: write as fractions, then work left to right





Word problems with fractions

- 1 At a recent trivia night, one table of competitors answered five eighths of the fifty six questions correctly. How many questions did they get incorrect?
- 2 Co Tin usually takes approximately sixty and one quarter steps every minute when walking. How many steps does he expect to take when he exercises by walking for one and two third hours each day?
- 3 A vegetable garden has one third carrots, one sixth pumpkins, one quarter herbs, and the rest are potato plants. How many potato plants are in this garden of eighty plants?
- 4 A class of twenty four students compared eye colours on a chart. Two thirds of the class had brown eyes, and three eighths of those brown-eyed students were boys. How many girls had brown eyes?

Extension



Word problems with fractions

- 5 For one particular school:
There are 256 students in Year 7.
The Year 8, 9 and 10 groups all have half the number of students than the year just below them.
How many students are there at this school in Years 7 to 10?



- 6 Five students in a class have a combined total of ninety profiles added as friends on a web-based social network site.
Three fifths of the ninety profiles are shared by all five of the students. These shared profiles represent one sixth of the total number of different profiles added as friends by all the students in the class.
How many different profiles are linked to students from this class?
- 7 Five sevenths of the fifty six images used as backgrounds on Meagan's touchpad were photos she took herself. After moving five eighths of these photos to another computer, what fraction of the background images now are **not** photos taken by her?

Weekly Spellings

You should continue to revise words/spelling patterns from the KS2 National Curriculum that you have identified as necessary. We have provided a bank of words for you to begin learning if you feel you are totally secure in your knowledge of KS2 words. Remember, it is more important that you revise all necessary spelling patterns first.

The following words are from word banks that you will begin to learn at secondary school. These particular words contain what are known as 'unstressed' vowels. That means when you speak the words, you don't sound out all the vowels e.g. *abominable* You don't really hear the *i* vowel when reading it. Your job for week 3 is to learn the words in the third list ie. from *easily* to *generally*

abandoned	conference	easily	generous	library	offering	similar
abominable	consonant	explanatory	geography	literacy	original	skeleton
alcohol	corporal	extra	grammar	literate	parallel	smuggler
animal	deafening	factory	heaven	literature	parliament	stationary
astronomy	definite	familiar	history	locomotive	poisonous	stationery
benefit	definitely	family	holiday	lottery	predict	telephone
boundary	describe	fattening	hospital	margarine	prepare	television
business	description	February	illiterate	marvellous	primary	vegetable
carpet	desperate	flattery	interest	mathematics	prosperous	voluntary
category	dictionary	formal	interested	medicine	reference	Wednesday
Catholic	difference	freedom	January	memorable	Saturday	widening
centre	different	frightening	jewellery	messenger	secretary	
company	disinterest	general	journalist	miniature	separate	
compromise	doctor	generally	lettuce	miserable	signature	

Foundation Topic Work (for the week)

Today's task on Purple mash is to use 2 Create a Story to illustrate the story that you write in English this week. When you open the app, click on 'My Adventure Story'. Experiment with creating 3 or 4 images which tell the main parts of the story, along with some brief text to summarise each – with younger readers in mind. If your first scene was Tom finding the robbers burying the treasure, you could paint the scene then write:

Tom and Oscar stumbled upon some evil people burying treasure.

Diary

Write a diary of what work and activities you did today. Remember to include your thoughts, feelings and opinions.