Monday 7th June

Multiply the following fractions

$2 \times \frac{4}{5} = \_\_\_$

$\frac{1}{8}$ of $15 = \_\_\_$

$4 \times \frac{2}{9} = \_\_\_$

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

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

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

8a. Sheraz solved the calculation below.

$$\frac{27}{15} \times 6$$

Sheraz

The answer is $10\frac{4}{15}$.

Find and correct Sheraz's mistake.

The school cook is working out how many potatoes she needs to buy to cook dinner for the school. She estimates that each class will eat 3 4/7 kg of potatoes. She buys 21 3/7 kg of potatoes altogether. How many classes is the school cook buying the potatoes for?

2. Tom is saving up his pocket money for his next school trip.

Tom

I get £10 pocket money a week. I only want to save part of this each week until I have between £35 and £40 for my school trip.

Tom only wants to save whole pounds each week. Explore the different amounts that Tom could save, and how many weeks it would take to save that amount so that the total saved is between £35 and £40.

Number of Weeks		Number of Pounds		Total Saved
☐ ☐/☐	x	☐	=	☐

Using each of the digits 1 to 6 only once, investigate completing these multiplication statements.

a) $? \times ? \frac{?}{?}$ = greatest possible answer. (Don't make an improper fraction within a mixed number.)

b) $? \times ? \frac{?}{?}$ = mixed number answer with 1/2 as the fraction

Tuesday 8th June

Multiply the fractions and simplify your

Answer where you can.

1. $\frac{3}{4} \times \frac{1}{3} =$

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

3. $\frac{4}{5} \times \frac{1}{6} =$

4. $\frac{3}{8} \times \frac{4}{5} =$

1. A group of children play in an orchestra. $\frac{3}{4}$ of the children play a brass instrument. Of these children, $\frac{2}{5}$ play a trumpet. What fraction of the group of children play a trumpet?

If there are 40 children altogether, how many play the trumpet?

2. Sammy has a bag of sweets. $\frac{2}{5}$ of the sweets are fizzy. Of these fizzy sweets, $\frac{4}{6}$ are orange. What fraction of the sweets are fizzy and orange?

If there are 60 sweets altogether, how many are fizzy and orange?

Give four different pairs of proper fractions that equal four ninths when multiplied together.

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

Give the missing digits for each of these calculations.

$\frac{1}{\square} \times \frac{2}{10} = \frac{\square}{\square}$ or $\frac{1}{10}$

$\frac{2}{5} \times \frac{5}{\square} = \frac{\square}{\square}$ or $\frac{1}{3}$

$\frac{\square}{5} \times \frac{3}{8} = \frac{\square}{\square}$ or $\frac{3}{10}$

$\frac{1}{\square} \times \frac{2}{8} = \frac{\square}{\square}$ or $\frac{1}{16}$

Using a different number (any number) for each part of the fraction, can you find five different ways to complete this calculation?

$$\frac{?}{?} \times \frac{?}{?} = \frac{1}{2}$$

Wednesday 9th June

Simplify the fractions using the highest common factor.

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

$\frac{30}{36}$ in its simplest form is $\frac{10}{12}$

1) Is this statement correct? Explain your answer.

2) Marlon is blowing bubbles in the park.

- 8 bubbles landed on the grass.
- 10 bubbles floated away.
- 6 bubbles popped straight away.

Is Marlon correct? Explain your answer.

4b. Use the highest common factors below to help complete these simplified fractions.

12	4	6	3

A. $\frac{28}{\square} = \frac{\square}{9}$ B. $\frac{\square}{36} = \frac{5}{\square}$

C. $\frac{\square}{48} = \frac{3}{\square}$ D. $\frac{18}{\square} = \frac{\square}{5}$

. Paul is simplifying fractions but he has spilt paint over his work.

A. $\frac{18}{36} = \frac{\square}{\square}$

B. $\frac{\square}{24} = \frac{\square}{6}$

C. $\frac{12}{\square} = \frac{\square}{4}$

D. $\frac{30}{\square} = \frac{\square}{5}$

E. $\frac{\square}{\square} = \frac{1}{3}$

F. $\frac{\square}{\square} = \frac{3}{7}$