Year 5	Maths	English	Science	Art	Geography
Wc 1 st June	White Rose daily activities to be completed in maths books www.whiterosemaths.com/homelearning/year-5/ (Week 6 on website) Lesson 1: Multiply fraction by integer Lesson 2: Multiply mixed number by	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	This week's topic from BBC bitesize is: 'How do animals reproduce?' https://www.bbc.co.uk/bitesize/topics/zgssgk7/articles/z9xb39q	This week's art topic from BBC bitesize is: Painting, Collage and Printmaking - Daily Life https://www.bbc.co.uk/bites ize/articles/zbdhnrd	Research the Northern Lights and create an information poster about them.
	Integer Lesson 3: Fraction of amount Lesson 4: Fractions as operators	in your workbooks. <u>https://www.bbc.co.uk/bit</u> esize/dailylessons		History/P.E	Where are they? How are they made?
	Watch the videos and answer the questions in your books. Worksheets will be provided on the pages below for you to use. Reading Read a piece of non-fiction information. It could be linked Geography poster research.			Research the Ancient Greek Olympics see if you can recreate any of the Greek Olympic activities safely in your house or garden.	Are they always the same? What colours are they? Are they the same as the Southern lights?
	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.	Writing Watch Jane Considine's Sentence stacking videos on YouTube to build sentences into paragraphs. Jane Considine teaches these lessons		Please send pictures of your Ancient Greek Olympics!	
	https://www.bbc.co.uk/bitesize/dailylessons	daily at 9:45am. You can subscribe for free to get daily reminders of the lesson beginning. https://mailchi.mp/thetrainingspace.c	If you need to speak to Miss Po or Mrs Bateman please email u		
	Plus TT Rockstars 5 times a week MyMaths activities SAMLearning activities Sumdog activities Sumdog activities O/webinar-subscription Or search 'Jane Considine sentence stackers' on YouTube to watch earlier lessons.		wr5teacher@unity.fcat.org.uk We look forward to seeing you email or on twitter @UnityPha	r work either by	

Multiply unit fractions by an integer



Complete the calculations.

Use the bar models to help you.

α)

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

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

b)

$$\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} =$$

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

c) _____

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$$

$$5 \times \frac{1}{8} =$$

d) | | | | | |

$$\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \boxed{7 \times \frac{1}{10} = \boxed{}}$$

a)
$$3 \times \frac{1}{8} =$$

e)
$$\frac{1}{5} \times 4 =$$

b)
$$3 \times \frac{1}{10} =$$

f)
$$\frac{1}{9} \times 8 =$$

c)
$$\frac{1}{8} \times 5 =$$

g)
$$8 \times \frac{1}{11} =$$

d)
$$9 \times \frac{1}{10} =$$

h)
$$\frac{1}{11} \times 10 =$$

3 Match the addition to the equivalent multiplication.

$$\frac{1}{3} + \frac{1}{3}$$

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

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$$

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

$$\frac{1}{5} + \frac{1}{5}$$

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

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

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

4

A pizza is cut into sixths.

Jack eats five of the slices.

Write a multiplication to represent this.

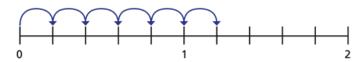


5 Complete the multiplications.

Use the number lines to help you.

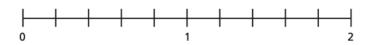
Give each answer as an improper fraction and as a mixed number.

a)



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

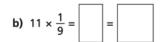
b)



6

Complete the multiplications.

a)
$$11 \times \frac{1}{10} = \boxed{}$$



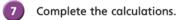
c)
$$\frac{1}{8} \times 11 = \boxed{}$$

d)
$$11 \times \frac{1}{7} = \boxed{}$$

e)
$$11 \times \frac{1}{6} = \boxed{}$$

What do you notice?

Does this pattern continue?



a)
$$= \frac{1}{3} = \frac{2}{3}$$

e)
$$\frac{1}{8} \times \boxed{ } = 1\frac{3}{8}$$

b)
$$\times \frac{1}{3} = 1$$

f)
$$\times \frac{1}{2} = 3\frac{1}{2}$$

c)
$$\times \frac{1}{7} =$$

g)
$$\times \frac{1}{3} = 3\frac{1}{3}$$

d)
$$\frac{1}{7} \times \boxed{} = 1$$

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





Multiply non-unit fractions by an integer



Complete the calculations.

Use the bar models to help you.



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

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

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

$$3 \times \frac{3}{10} =$$

$$\frac{2}{9} + \frac{2}{9} + \frac{2}{9} + \frac{2}{9} =$$

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

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

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

What do you notice about parts c) and d)? Talk to a partner.



Complete the multiplications.

a)
$$2 \times \frac{3}{7} =$$

d)
$$5 \times \frac{2}{11} =$$

b)
$$3 \times \frac{3}{11} =$$

e)
$$\frac{2}{15} \times 7 =$$

c)
$$\frac{2}{11} \times 4 =$$

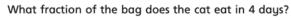
f)
$$\frac{7}{15} \times 2 =$$





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A cat eats $\frac{2}{15}$ of a bag of biscuits a day.





The cat eats of t

Day 1

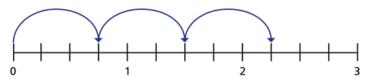
5

Complete the multiplications.

Use the number lines to help you.

Give each answer as an improper fraction and as a mixed number.

a)



$$3 \times \frac{3}{4} = \boxed{}$$

b)



c)



$$3 \times \frac{4}{5} = \boxed{}$$



6 Complete the multiplications.

a)
$$5 \times \frac{2}{3} = \boxed{}$$

b)
$$4 \times \frac{4}{5} = \boxed{}$$

d)
$$4 \times \frac{7}{9} = \boxed{}$$

- f) Describe the pattern you can see in the answers.
- g) What could the next multiplication in the pattern be? Write two possible options.



Here are some digit cards.



3

5



Use the digit cards to complete the multiplication.

$$\times \frac{ }{8} = \frac{15}{8} = \boxed{ }$$





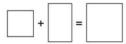
Multiply mixed numbers by integers



- Complete the calculations.
 - a) $4 \times 1\frac{1}{5}$

4	×	1	=	

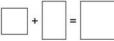
 $4 \times \frac{1}{5} =$



b) $4 \times 2\frac{1}{5}$

- Sec. 1	
× 2 =	





c) $4 \times 2\frac{2}{5}$



4 ×	=	=	
	 	 80 80	



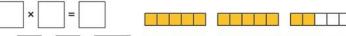


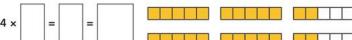
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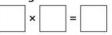
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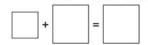


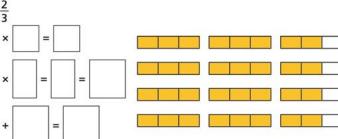
+	=				
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d) $4 \times 2\frac{2}{3}$









Complete the multiplications.

a)
$$3 \times 8\frac{2}{7} =$$

d)
$$4 \times 6 \frac{3}{19} =$$

b) 2 × 12
$$\frac{2}{11}$$
 =

e)
$$2\frac{2}{25} \times 12 =$$

c)
$$6\frac{2}{11} \times 4 =$$

f)
$$3\frac{1}{15} \times 8 =$$

What is the same and what is different about your answers?

One bag of potatoes weighs $1\frac{3}{4}$ kg.





Complete the calculations.

a)
$$5 \times 2\frac{2}{3} = 10 + \frac{10}{3} =$$

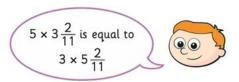
b)
$$4\frac{3}{7} \times 5 = 20 +$$

c) 8 × 2
$$\frac{5}{12}$$
 = +

d)
$$7 \times 3\frac{1}{5} = \boxed{ }$$

f) 11 × 4
$$\frac{3}{10}$$
 = +

5



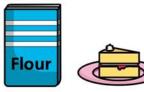
Do you agree with Ron? _____ Explain why.

6	Eva drinks $3\frac{1}{3}$ litres of water a day.	
---	--	--

How many litres of water does she drink in a week?



Here is a recipe for a birthday cake.



Butter
$$1\frac{3}{8}$$
 kg

Sugar 1 $\frac{5}{16}$ kg

Self-raising flour $2\frac{1}{4}$ kg

6 eggs

a) How much flour is needed for 3 birthday cakes?

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b) Dora makes 4 birthday cakes.

How much more butter does she use than sugar?

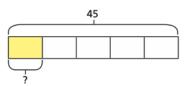


Fractions of an amount



- Annie and Mo are finding fractions of amounts.
 - a) Annie is trying to find $\frac{1}{5}$ of 45

She draws this bar model.

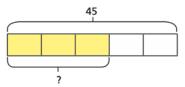


How does the bar model represent the calculation?

What is $\frac{1}{5}$ of 45?



b) Mo is trying to find $\frac{3}{5}$ of 45



How does the bar model represent the calculation?

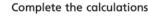
What is
$$\frac{3}{5}$$
 of 45?



c) What is the same and what is different about Mo and Annie's questions?

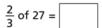


Complete the calculations.





c)
$$\frac{1}{3}$$
 of 90 =



$$\frac{1}{6}$$
 of 72 =

$$\frac{2}{6}$$
 of 90 =

$$\frac{3}{3}$$
 of 27 =

$$\frac{1}{12}$$
 of 72 =

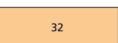
$$\frac{3}{9}$$
 of 90 =

What patterns do you notice?

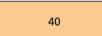


Match the calculations to the correct amounts.





$$\frac{2}{3}$$
 of 48



$$\frac{5}{6}$$
 of 48

$$\frac{3}{4}$$
 of 48

36

- Write <, > or = to compare the calculations.
 - a) $\frac{5}{7}$ of 56 $\frac{5}{8}$ of 5
- c) $\frac{2}{3}$ of 63 $\frac{5}{8}$ of 6
- **b)** $\frac{4}{7}$ of 56 $\frac{5}{8}$ of 56
- d) $\frac{7}{10}$ of 350 $\frac{5}{7}$ of 350
- 5 165 children and adults go on a school trip.
 Two thirds of the people are children.
 - a) How many adults are on the school trip?

b) $\frac{3}{5}$ of the children are boys.

How many boys are on the school trip?

c) ⁷/₁₀ of the children have an apple for lunch. How many children do not have an apple for lunch? Tick the odd one out.

 $\frac{3}{4}$ of 80

 $\frac{3}{8}$ of 160

 $\frac{2}{3}$ of 90

 $\frac{3}{4}$ of 100

Explain your choice.

320 people were asked about their favourite flavour of ice cream.

Here is a pictogram showing the results.



vanilla	99999
strawberry	99999
chocolate	999
mint choc chip	999999

a) How many people chose mint choc chip?

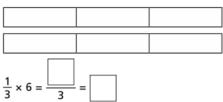
b) How many more people chose vanilla than chocolate?

Fractions as operators





a) Work out $\frac{1}{3} \times 6$



b) Work out $\frac{1}{3}$ of 6



- c) What is the same about these calculations?
- d) Work out $\frac{2}{3}$ of 6

$$\frac{2}{3}$$
 of 6 = \div \times 2 =

e) Work out $\frac{2}{3} \times 6$

	$\frac{2}{3} \times 6 = \boxed{}$
] 3



Complete the calculations.

a)
$$\frac{1}{3} \times 12 =$$

c)
$$12 \times \frac{2}{3} =$$

$$\frac{1}{3}$$
 of 12 =

$$\frac{2}{3}$$
 of 12 =

b)
$$12 \times \frac{1}{4} =$$

d)
$$\frac{3}{4} \times 12 =$$

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

$$\frac{3}{4}$$
 of 12 =

What do you notice?



Tick the calculation in each pair that is easier to work out.

a)
$$\frac{1}{5} \times 7$$

$$\frac{1}{5}$$
 of 7

b)
$$\frac{1}{5} \times 10$$

$$\frac{1}{5}$$
 of 10

c)
$$\frac{3}{5} \times 10$$

$$\frac{3}{5}$$
 of 10

d)
$$\frac{3}{10} \times 5$$

$$\frac{3}{10}$$
 of 5

Compare answers with a partner.



Complete the calculations.



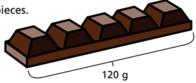
b)
$$\frac{3}{4} \times 24 =$$
 of $24 =$

c)
$$\frac{2}{7} \times \boxed{ } = \boxed{ }$$
 of 28 =

d)
$$\times 45 = \frac{4}{5} \text{ of} =$$

A bar of chocolate has 5 equal pieces.

The whole bar weighs 120g.



How much do three pieces weigh?

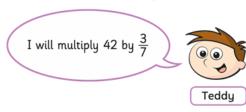
a) Write two calculations that will give the answer to the problem.

b) Work out the answer.

Three pieces of chocolate weigh

6 Teddy and Annie are working out $\frac{3}{7} \times 42$

a)



Use Teddy's method to work out the calculation.

b)



Use Annie's method to work out the calculation.

c) Whose method do you prefer? ______ Explain why.

d) When is it easier to find fractions of amounts rather than multiply fractions?

Give some examples for each method.

