

## Year 5

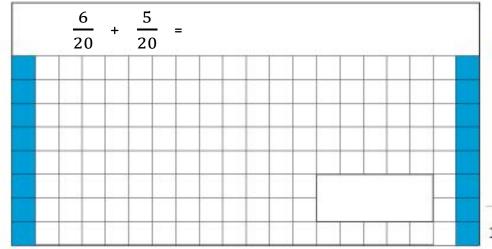
MATHS WEEK 5- DAY 3
FRACTIONS PRACTICE WEEK



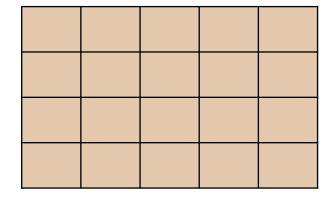
You have 3 minutes to complete the next 3 questions! Good luck

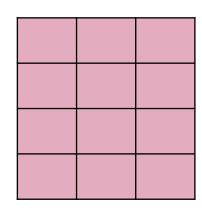


## Challenge 1



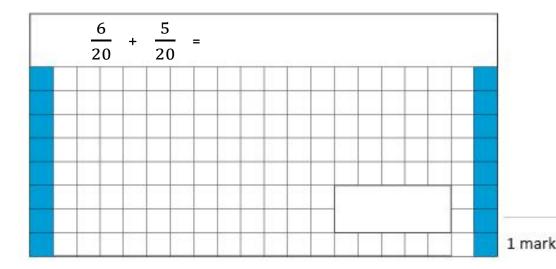
3. Two patios are made up of squaremetre tiles. Calculate the difference in the area of the two patios.

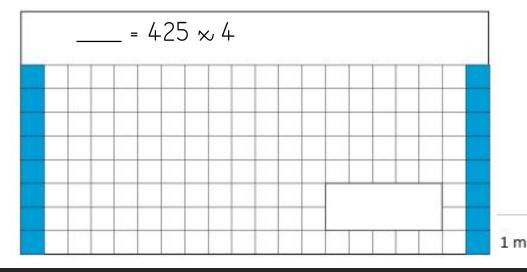




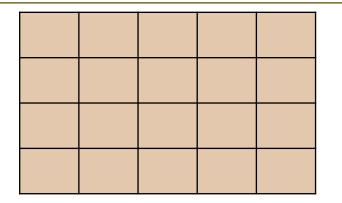


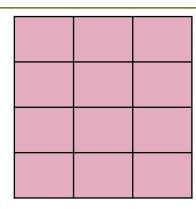
## Challenge 1





3. Two patios are made up of squaremetre tiles. Calculate the difference in the area of the two patios.





#### Solutions

- 11 20 1,700

This week please use the Times Tables Practice sheet for our Challenge 2.

How many did you get right?



# WALT: Identify, name and write equivalent fractions of a given fraction, represented visually

Vocabulary Can you remember what these mean?

denominator numerator simplify equivalent



### Vocabulary: Fractions Year 5

Fraction
Vocabulary
proper fraction
improper fraction
mixed numbers
numerator
denominator
decimal fraction
decimal place

A proper fraction is a fraction that is less than one, with the numerator less than the denominator e.g. 2/3

An improper fraction is a fraction that is more than one, with the numerator greater than the denominator e.g. 4/3. "They are top-heavy!"

A mixed number is a fraction that consists of an integer (whole number) and a fraction e.g. | 2/3

A numerator is the top number in a fraction and shows how many parts you have. The denominator is the number on the bottom and shows how many equal parts the item is divided into.

e.g. 3/4 3 = numerator 4 = denominator

A decimal fraction is a fraction where the denominator is a power of 10 e.g.

4/10 = 0.4 34/100 = 0.34

Decimal place - this is the number of digits after the decimal point.

0.4 has one decimal place 0.34 has two decimal places

#### numerator



4 denominato

 $\frac{3}{5}$ 

proper fraction

 $\frac{13}{7}$ 

improper fraction

 $2\frac{1}{4}$ 

mixed number



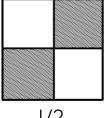
#### Vocabulary: Fractions Year 5/6

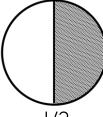
Fraction Vocabulary proper fraction improper fraction mixed numbers numerator denominator equivalent half, third, quarter, fifth, sixth, tenth, hundredth. thousandth convert

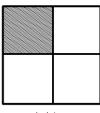
Equivalent fractions are two or more fractions which have the same numerical value but use different numerators and denominators e.g. 34, 6/8, 12/16 and 300/400 are all equivalent fractions. To be equivalent, the numerators and denominators must increase/decrease in the same ratio e.g. "If the numerator is multiplied by 3, then the denominator must be multiplied by 3.

To convert a fraction means to change it from one form to another, without changing its size or value. You might convert (change) from a mixed number to an improper fraction, or vice versa.

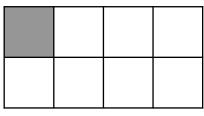
To simplify a fraction means to reduce it to a simpler form by cancellation of common factors e.g. 6/15 can be simplified to 2/5 as 3 is a common factor of 6 and 15.







1/4





### Challenge 3: Watch the WhiteRose Video Summer Week 4 Day 2: Equivalent Fractions

https://whiterosemaths.com/homelearning/year-5/

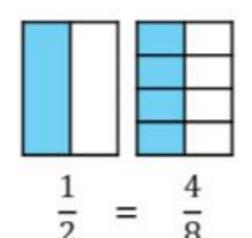


## Challenge 3: Question |



Answer in your book!

Take two pieces of paper the same size. Fold one piece into two equal pieces. Fold the other into eight equal pieces. What equivalent fractions can you find?



I lead the see also be contracted as it is been forestiened

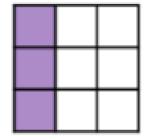


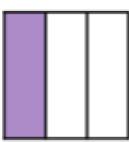
Challenge 3: Question 2

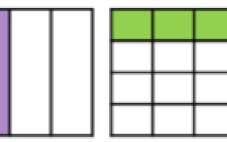


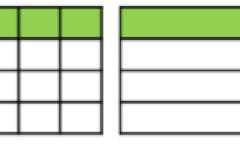
 $\mathbf{O}$ 

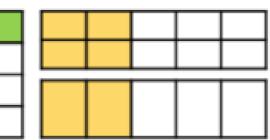
Use the models to write equivalent fractions.













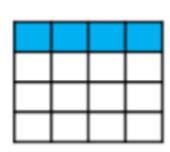
## Challenge 3: Question 3



Answer in your book!

Eva uses the models and her multiplication and division skills to find equivalent fractions.







Use this method to find equivalent  $\frac{4}{16}$  fractions to  $\frac{2}{4}$ ,  $\frac{3}{4}$  and  $\frac{4}{4}$  where the denominator is 16



## Challenge 3: Question 4



Answer in your book!

Eva uses the same approach to find equivalent fractions for these fractions. How will her method change?

$$\frac{4}{12} = \frac{1}{3}$$

$$\frac{6}{12} = \frac{1}{4}$$

$$\frac{6}{12} = \frac{1}{2}$$



## Challenge 4: Problem Solving

Here are some fraction cards. All of the fractions are equivalent.

 $\frac{4}{A}$ 

 $\frac{B}{C}$ 

 $\frac{20}{50}$ 

A + B = 16Calculate the value of C. Answer in your book!



Challenge 4: Problem Solving

Here are some fraction cards. All of the fractions are equivalent.

 $\frac{4}{A}$ 

 $\frac{B}{C}$ 

 $\frac{20}{50}$ 

A + B = 16Calculate the value of C.



Answers: