

Easter Maths Mosaics - Fractions



	1	2	3	4	5	6	7	8
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

$\frac{1}{2}$ to $1\frac{1}{2}$ inclusive:
white

2 to $3\frac{1}{3}$ inclusive:
blue

$3\frac{2}{3}$ to $4\frac{1}{2}$ inclusive:
purple

Each cell in the diagram is described by two numbers in brackets, for example, (2, 3) describes the cell which is 2 along and 3 down according to the numbers along the top and down the side. Similar to working with coordinates, you go along the corridor then up (or down) the stairs. The result of each calculation will tell you what colour to shade the cell.

(1, 1) $\frac{2}{3} + \frac{1}{2} =$

(1, 2) $\frac{1}{2}$ of 3 =

(1, 3) $2\frac{1}{5} - \frac{7}{8} =$

(1, 4) $\frac{5}{8} \times 1\frac{1}{2} =$

(1, 5) 6 as a fraction of 8 =

(1, 6) $1\frac{1}{4} \div \frac{5}{8} =$

(1, 7) How many $\frac{1}{2}$ hours are there in two hours? =

(1, 8) What is the total number of litres in one and a half litres, three quarters of a litre and half a litre? =

(1, 9) $\frac{1}{3} + \frac{2}{5} =$

(1, 10) $3 - 1\frac{3}{4} =$

(1, 11) $\frac{1}{5}$ of 7 =

(2, 1) $\frac{2}{3} \times \frac{3}{2} =$

(2, 2) 8 as a fraction of 6 =

(2, 3) $\frac{5}{8} \div \frac{1}{2} =$

(2, 4) $2\frac{1}{5} + 1\frac{1}{10} =$

(2, 5) $6 - 3\frac{1}{2} =$

(2, 6) $1\frac{1}{4} \times 2\frac{1}{10} =$

(2, 7) $\frac{1}{2}$ of 9 =

(2, 8) $\frac{3}{4} \div \frac{1}{4} =$

(2, 9) A dog eats $\frac{1}{3}$ of a tin of dog food per day. How many tins will the dog eat in 7 days? =(2, 10) It takes $2\frac{1}{4}$ hours to fully cook a chicken. After it has cooked for $\frac{3}{4}$ hour, how many more hours does it need to cook for? =

(2, 11) $\frac{3}{5} + \frac{1}{2} =$

(3, 1) $2 - \frac{3}{4} =$

(3, 2) 8 as a fraction of 3 =

(3, 3) $\frac{2}{3}$ of $4\frac{1}{2} =$

(3, 4) It takes an hour and a half to prepare a lasagne and three quarters of an hour to cook it. How many hours does it take in total to prepare and cook it? =

(3, 5) How many third of a litre servings can be taken out of a bottle containing $1\frac{1}{9}$ litres of juice? =

(3, 6) $\frac{1}{2}$ of 5 =

(3, 7) $2\frac{5}{6} + 1\frac{1}{2} =$

(3, 8) A rectangle has an area of 5cm^2 . Its length is $2\frac{1}{2}\text{cm}$. What is its width, in cm? =(3, 9) Find, in cm, the perimeter of a rectangle with width $\frac{1}{2}\text{cm}$ and length $\frac{2}{3}\text{cm}$. =

(3, 10) $1\frac{1}{12} + 1\frac{1}{12} =$

(3, 11) $\frac{3}{4}$ of $\frac{3}{4} =$

(4, 1) $3\frac{1}{5} - \frac{2}{3} =$

(4, 2) $4\frac{1}{2} \times \frac{1}{2} =$

(4, 3) $4\frac{1}{2} \div 2 =$

(4, 4) $\frac{2}{3}$ of $4\frac{1}{2} =$

(4, 5) 18 as a fraction of 8 =

(4, 6) Find the difference between $10\frac{2}{5}$ and $7\frac{4}{5} =$

(4, 7) $5 - 1\frac{1}{6} =$

(4, 8) Find the mean of $3\frac{3}{4}$ and $2\frac{1}{4} =$

(4, 9) Find the median of $3\frac{1}{8}$, $3\frac{1}{9}$ and $3\frac{1}{2} =$

(4, 10) Find the range of $10\frac{5}{7}$ and $8\frac{2}{5} =$

(4, 11) $1\frac{1}{2} + 1\frac{5}{8} =$

(5, 1) $3\frac{1}{12} - \frac{1}{4} =$

(5, 2) $\frac{2}{3} \times 3\frac{1}{9} =$

(5, 3) 20 as a fraction of 8 =

(5, 4) $\frac{1}{5}$ of 10 =

(5, 5) $4\frac{1}{2} \div 2\frac{1}{5} =$

(5, 6) What number is half way between $2\frac{5}{6}$ and $3\frac{5}{6}$? =

(5, 7) $3\frac{1}{2} \times 1\frac{1}{8} =$

(5, 8) I think of a number, multiply it by 4 then subtract 2; the result is 8. What was the number I thought of? =

(5, 9) I think of a number, subtract $\frac{2}{3}$ and multiply by $1\frac{1}{2}$. If the number I thought of was 2, what is the result? =

(5, 10) $1\frac{1}{2} + 1\frac{5}{6} =$

(5, 11) $5 - 2\frac{5}{9} =$

(6, 1) $2\frac{1}{3} \times \frac{1}{2} =$

(6, 2) $7 \div 3 =$

(6, 3) 16 as a fraction of 6 =

(6, 4) $\frac{1}{5}$ of 11 =

(6, 5) A length of ribbon is $4\frac{2}{3}$ m long. What is the length, in m, of half of the length of ribbon? =

(6, 6) $? + \frac{1}{3} = 3$ Find the value of "?" =

(6, 7) $2 \div \frac{1}{2} =$

(6, 8) $\frac{4}{7} + \frac{5}{7} + \frac{6}{7} =$

(6, 9) $10 - 7\frac{1}{2} =$

(6, 10) $\frac{2}{3} \times 3\frac{1}{3} =$

(6, 11) $5\frac{1}{2} \div 4\frac{1}{4} =$

(7, 1) 10 as a fraction of 8 =

(7, 2) $\frac{1}{3}$ of 3 =

(7, 3) Dexter has $\frac{2}{5}$ of a litre of orange juice; Scarlet has $\frac{2}{3}$ of a litre of orange juice. What fraction of a litre of orange juice do they have altogether? =

(7, 4) Find 9 as a fraction of 4 =

(7, 5) $\frac{1}{4} + \frac{2}{4} + \frac{3}{4} + \frac{1}{2} =$

(7, 6) $\frac{4}{9}$ of 5 =

(7, 7) $\frac{2}{3}$ of 6 =

(7, 8) 6 as a fraction of 3 =

(7, 9) $1\frac{7}{18} + \frac{5}{6} =$

(7, 10) $4\frac{2}{3} - 3\frac{5}{6} =$

(7, 11) $8\frac{1}{2} \times \frac{1}{8} =$

(8, 1) $\frac{1}{2} \div \frac{2}{3} =$

(8, 2) Verity runs $\frac{1}{7}$ of a mile then walks $1\frac{1}{3}$ miles. How far has she gone altogether? =

(8, 3) 9 as a fraction of 7 =

(8, 4) 7 as a fraction of 9 =

(8, 5) $\frac{1}{5}$ of $\frac{7}{2} =$

(8, 6) $\frac{1}{8} + \frac{2}{8} + \frac{3}{8} + \frac{4}{8} + \frac{5}{8} + \frac{1}{4} =$

(8, 7) A rectangle has width $2\frac{1}{2}$ cm and length $1\frac{1}{2}$ cm. What is the area of the rectangle, in cm^2 ? =


(8, 8) 10 as a fraction of 3 =

(8, 9) $\frac{2}{3} + \frac{1}{4} =$

(8, 10) $1\frac{1}{4} - \frac{1}{8} =$

(8, 11) $\frac{2}{3} \div 1 =$

Easter Maths Mosaics - Fractions Answers



	1	2	3	4	5	6	7	8
1				Blue	Blue			
2			Blue	Blue	Blue	Blue		
3			Blue	Blue	Blue	Blue		
4		Blue	Blue	Blue	Blue	Blue	Blue	
5		Blue	Blue	Blue	Blue	Blue	Blue	
6	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
7	Purple	Purple	Purple	Purple	Purple	Purple	Purple	Purple
8	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
9		Blue	Blue	Blue	Blue	Blue	Blue	
10			Blue	Blue	Blue	Blue		
11				Blue	Blue			

$\frac{1}{2}$ to $1\frac{1}{2}$ inclusive:
white

2 to $3\frac{1}{3}$ inclusive:
blue

$3\frac{2}{3}$ to $4\frac{1}{2}$ inclusive:
purple

Each cell in the diagram is described by two numbers in brackets, for example, (2, 3) describes the cell which is 2 along and 3 down according to the numbers along the top and down the side. Similar to working with coordinates, you go along the corridor then up (or down) the stairs. The result of each calculation will tell you what colour to shade the cell.

(1, 1) $\frac{2}{3} + \frac{1}{2} = 1\frac{1}{6}$ **white**

(1, 2) $\frac{1}{2}$ of 3 = $1\frac{1}{2}$ **white**

(1, 3) $2\frac{1}{5} - \frac{7}{8} = 1\frac{13}{40}$ **white**

(1, 4) $\frac{5}{8} \times 1\frac{1}{2} = \frac{15}{16}$ **white**

(1, 5) 6 as a fraction of 8 = $\frac{3}{4}$ **white**

(1, 6) $1\frac{1}{4} \div \frac{5}{8} = 2$ **blue**

(1, 7) How many $\frac{1}{2}$ hours are there in two hours?
= **4 purple**

(1, 8) What is the total number of litres in one and a half litres, three quarters of a litre and half a litre? = $2\frac{3}{4}$ **litres blue**

(1, 9) $\frac{1}{3} + \frac{2}{5} = \frac{11}{15}$ **white**

(1, 10) $3 - 1\frac{3}{4} = 1\frac{1}{4}$ **white**

(1, 11) $\frac{1}{5}$ of 7 = $1\frac{2}{5}$ **white**

(2, 1) $\frac{2}{3} \times \frac{3}{2} = 1$ **white**

(2, 2) 8 as a fraction of 6 = $\frac{4}{3}$ **white**

(2, 3) $\frac{5}{8} \div \frac{1}{2} = 1\frac{1}{4}$ **white**

(2, 4) $2\frac{1}{5} + 1\frac{1}{10} = 3\frac{3}{10}$ **blue**

(2, 5) $6 - 3\frac{1}{2} = 2\frac{1}{2}$ **blue**

(2, 6) $1\frac{1}{4} \times 2\frac{1}{10} = 2\frac{5}{8}$ **blue**

(2, 7) $\frac{1}{2}$ of 9 = $4\frac{1}{2}$ **purple**

(2, 8) $\frac{3}{4} \div \frac{1}{4} = 3$ **blue**

(2, 9) A dog eats $\frac{1}{3}$ of a tin of dog food per day. How many tins will the dog eat in 7 days? = $2\frac{1}{3}$ **blue**

(2, 10) It takes $2\frac{1}{4}$ hours to fully cook a chicken. After it has cooked for $\frac{3}{4}$ hour, how many more hours does it need to cook for? = $1\frac{1}{2}$ **hours white**

(2, 11) $\frac{3}{5} + \frac{1}{2} = 1\frac{1}{10}$ **white**

(3, 1) $2 - \frac{3}{4} = 1\frac{1}{4}$ **white**

(3, 2) 8 as a fraction of 3 = $\frac{8}{3}$ **blue**

(3, 3) $\frac{2}{3}$ of $4\frac{1}{2} = 3$ **blue**

(3, 4) It takes an hour and a half to prepare a lasagne and three quarters of an hour to cook it. How many hours does it take in total to prepare and cook it? = $2\frac{1}{4}$ **hours blue**

(3, 5) How many third of a litre servings can be taken out of a bottle containing $1\frac{1}{9}$ litres of juice? = $3\frac{1}{3}$ **blue**

(3, 6) $\frac{1}{2}$ of 5 = $2\frac{1}{2}$ **blue**

(3, 7) $2\frac{5}{6} + 1\frac{1}{2} = 4\frac{1}{3}$ **purple**

(3, 8) A rectangle has an area of 5cm^2 . Its length is $2\frac{1}{2}\text{cm}$. What is its width, in cm? = **2cm blue**

(3, 9) Find, in cm, the perimeter of a rectangle with width $\frac{1}{2}\text{cm}$ and length $\frac{2}{3}\text{cm}$. = $2\frac{1}{3}\text{cm blue}$

(3, 10) $1\frac{1}{12} + 1\frac{1}{12} = 2\frac{1}{6}$ **blue**

(3, 11) $\frac{3}{4}$ of $\frac{3}{4} = \frac{9}{16}$ **white**

(4, 1) $3\frac{1}{5} - \frac{2}{3} = 2\frac{8}{15}$ **blue**

(4, 2) $4\frac{1}{2} \times \frac{1}{2} = 2\frac{1}{4}$ **blue**

(4, 3) $4\frac{1}{2} \div 2 = 2\frac{1}{4}$ **blue**

(4, 4) $\frac{2}{3}$ of $4\frac{1}{2} = 3$ **blue**

(4, 5) 18 as a fraction of 8 = $\frac{9}{4}$ **blue**

(4, 6) Find the difference between $10\frac{2}{5}$ and $7\frac{4}{5}$
= $2\frac{3}{5}$ **blue**

(4, 7) $5 - 1\frac{1}{6} = 3\frac{5}{6}$ **purple**

(4, 8) Find the mean of $3\frac{3}{4}$ and $2\frac{1}{4} = 3$ **blue**

(4, 9) Find the median of $3\frac{1}{8}$, $3\frac{1}{9}$ and $3\frac{1}{2} = 3\frac{1}{8}$ **blue**

(4, 10) Find the range of $10\frac{5}{7}$ and $8\frac{2}{5} = 2\frac{11}{35}$ **blue**

(4, 11) $1\frac{1}{2} + 1\frac{5}{8} = 3\frac{1}{8}$ **blue**

(5, 1) $3\frac{1}{12} - \frac{1}{4} = 2\frac{5}{6}$ **blue**

(5, 2) $\frac{2}{3} \times 3\frac{1}{9} = 2\frac{2}{27}$ **blue**

(5, 3) 20 as a fraction of 8 = $\frac{5}{2}$ **blue**

(5, 4) $\frac{1}{5}$ of 10 = **2 blue**

(5, 5) $4\frac{1}{2} \div 2\frac{1}{5} = 2\frac{1}{22}$ **blue**

(5, 6) What number is half way between $2\frac{5}{6}$ and $3\frac{5}{6}$? = **$3\frac{1}{3}$ blue**

(5, 7) $3\frac{1}{2} \times 1\frac{1}{8} = 3\frac{15}{16}$ **purple**

(5, 8) I think of a number, multiply it by 4 then subtract 2; the result is 8. What was the number I thought of? = **$2\frac{1}{2}$ blue**

(5, 9) I think of a number, subtract $\frac{2}{3}$ and multiply by $1\frac{1}{2}$. If the number I thought of was 2, what is the result? = **2 blue**

(5, 10) $1\frac{1}{2} + 1\frac{5}{6} = 3\frac{1}{3}$ **blue**

(5, 11) $5 - 2\frac{5}{9} = 2\frac{4}{9}$ **blue**

(6, 1) $2\frac{1}{3} \times \frac{1}{2} = 1\frac{1}{6}$ **white**

(6, 2) $7 \div 3 = 2\frac{1}{3}$ **blue**

(6, 3) 16 as a fraction of 6 = $\frac{8}{3}$ **blue**

(6, 4) $\frac{1}{5}$ of 11 = **$2\frac{1}{5}$ blue**

(6, 5) A length of ribbon is $4\frac{2}{3}$ m long. What is the length, in m, of half of the length of ribbon? = **$2\frac{1}{3}$ m blue**

(6, 6) $? + \frac{1}{3} = 3$ Find the value of "?" = **$2\frac{2}{3}$ blue**

(6, 7) $2 \div \frac{1}{2} = 4$ **purple**

(6, 8) $\frac{4}{7} + \frac{5}{7} + \frac{6}{7} = 2\frac{1}{7}$ **blue**

(6, 9) $10 - 7\frac{1}{2} = 2\frac{1}{2}$ **blue**

(6, 10) $\frac{2}{3} \times 3\frac{1}{3} = 2\frac{2}{9}$ **blue**

(6, 11) $5\frac{1}{2} \div 4\frac{1}{4} = 1\frac{5}{17}$ **white**

(7, 1) 10 as a fraction of 8 = **$1\frac{1}{4}$ white**

(7, 2) $\frac{1}{3}$ of 3 = **1 white**

(7, 3) Dexter has $\frac{2}{5}$ of a litre of orange juice; Scarlet has $\frac{2}{3}$ of a litre of orange juice. What fraction of a litre of orange juice do they have altogether? = **$\frac{16}{15}$ litres white**

(7, 4) Find 9 as a fraction of 4 = **$\frac{9}{4}$ blue**

(7, 5) $\frac{1}{4} + \frac{2}{4} + \frac{3}{4} + \frac{1}{2} = 2$ **blue**

(7, 6) $\frac{4}{9}$ of 5 = **$2\frac{2}{9}$ blue**

(7, 7) $\frac{2}{3}$ of 6 = **4 purple**

(7, 8) 6 as a fraction of 3 = **$\frac{2}{1}$ blue**

(7, 9) $1\frac{7}{18} + \frac{5}{6} = 2\frac{2}{9}$ **blue**

(7, 10) $4\frac{2}{3} - 3\frac{5}{6} = \frac{5}{6}$ **white**

(7, 11) $8\frac{1}{2} \times \frac{1}{8} = 1\frac{1}{16}$ **white**

(8, 1) $\frac{1}{2} \div \frac{2}{3} = \frac{3}{4}$ **white**

(8, 2) Verity runs $\frac{1}{7}$ of a mile then walks $1\frac{1}{3}$ miles. How far has she gone altogether? = **$1\frac{10}{21}$ white**

(8, 3) 9 as a fraction of 7 = **$\frac{9}{7}$ white**

(8, 4) 7 as a fraction of 9 = **$\frac{7}{9}$ white**

(8, 5) $\frac{1}{5}$ of $\frac{7}{2} = \frac{7}{10}$ **white**

(8, 6) $\frac{1}{8} + \frac{2}{8} + \frac{3}{8} + \frac{4}{8} + \frac{5}{8} + \frac{1}{4} = 2\frac{1}{8}$ **blue**

(8, 7) A rectangle has width $2\frac{1}{2}$ cm and length $1\frac{1}{2}$ cm. What is the area of the rectangle, in cm^2 ? = **$3\frac{3}{4}$ purple**

(8, 8) 10 as a fraction of 3 = **$3\frac{1}{3}$ blue**

(8, 9) $\frac{2}{3} + \frac{1}{4} = \frac{11}{12}$ **white**

(8, 10) $1\frac{1}{4} - \frac{1}{8} = 1\frac{1}{8}$ **white**

(8, 11) $\frac{2}{3} \div 1 = \frac{2}{3}$ **white**