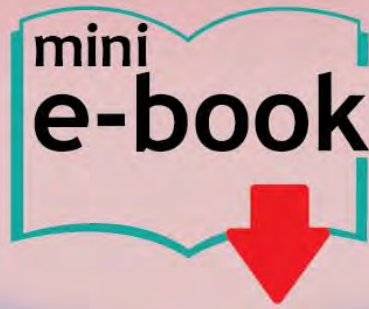


Maths

Fractions



For Upper Primary



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Preview

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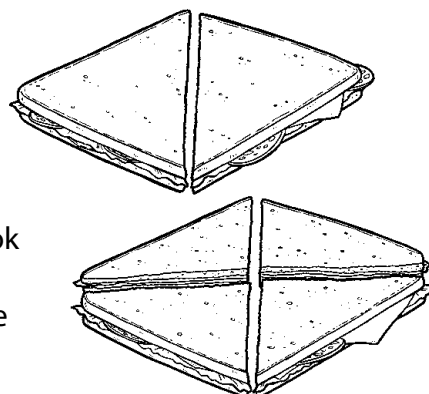
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Ordering Fractions

A fraction is part of a whole number. There are two numbers in a simple fraction. The top number is called the numerator. It tells us how many parts we have. The bottom is called the denominator. It tells us how many parts the whole has been divided into.

For example, a sandwich can be cut into two pieces. If we took away one piece we would be left with one out of two pieces or $\frac{1}{2}$. If we cut a sandwich into four pieces and took away one piece we would be left with one out of four pieces or $\frac{1}{4}$.



Answer these questions about fractions.

1. Colour in each of these fractions.

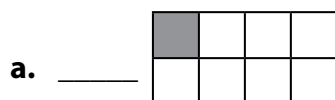
a. $\frac{1}{3}$ ○ ○ ○

c. $\frac{1}{6}$ ○ ○ ○ ○ ○ ○

b. $\frac{1}{8}$ ○ ○ ○ ○ ○ ○ ○ ○

d. $\frac{1}{12}$ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

2. Write the fraction each of these shaded shapes represent.

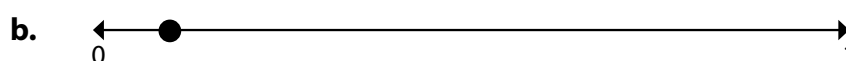
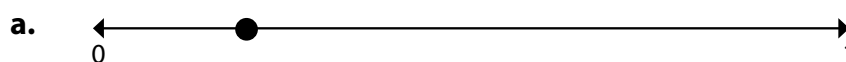


Write the fractions in order from smallest to biggest: _____

3. Label each of the following fractions on the number line: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{8}$



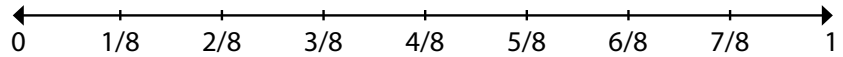
4. Write the correct fraction represented on each number line. You can use a ruler to help you work them out.



Adding And Subtracting Fractions – 1

Use the number lines below to solve the problems involving fractions.

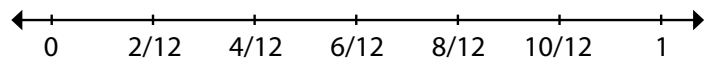
1. a. $1/8 + 2/8 =$



b. $3/8 + 5/8 =$

c. $6/8 - 4/8 =$

2. a. $1/12 + 4/12 =$



b. $9/12 - 3/12 =$

c. $5/12 + 6/12 =$

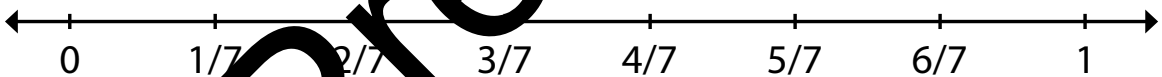
3. a. $5/9 + 4/9 =$



b. $8/9 - 3/9 =$

c. $6/9 - 4/9 =$

4.

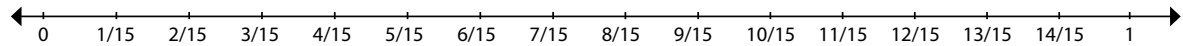


a. $5/7 - 2/7 =$

b. $6/7 + 1/7 =$

c. $3/7 - 2/7 =$

5.

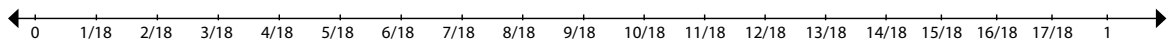


a. $14/15 - 12/15 =$

b. $6/15 + 5/15 =$

c. $13/15 - 8/15 =$

6.





a. $9/18 + 9/18 =$

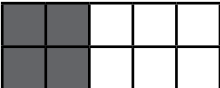
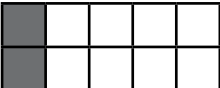
b. $16/18 + 1/18 =$

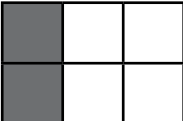
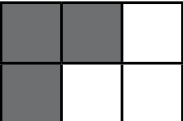
c. $11/18 - 4/18 =$



Adding And Subtracting Fractions – 2



1. Solve each problem below.

a.  +  =


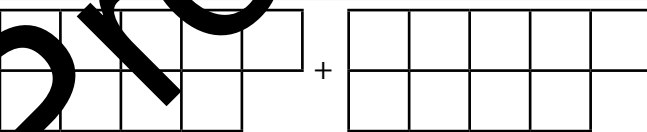
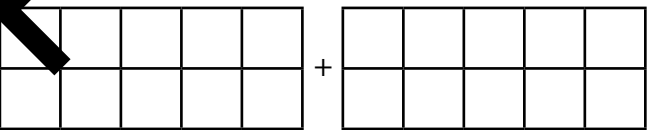
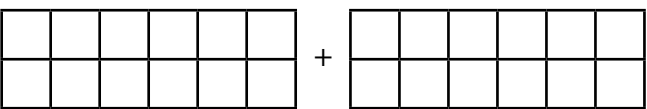
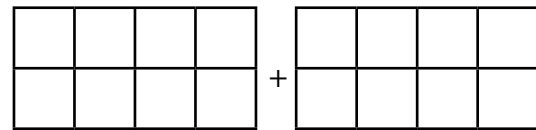

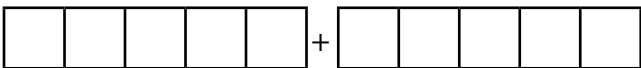
b.  -  =

c.  +  =

d.  +  =

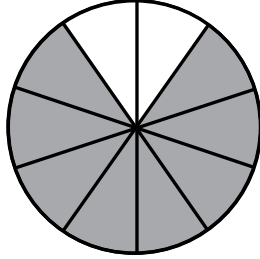
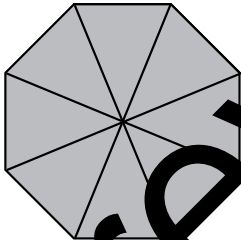
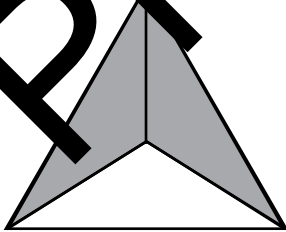
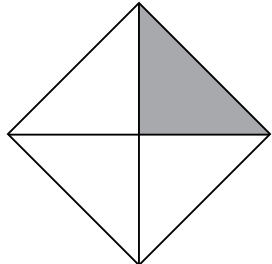

e.  -  =

2. Shade each diagram to show the fraction indicated, then complete the sum.

a. $1/4 + 2/4$		=
b. $3/9 + 3/9$		=
c. $2/10 + 6/10$		=
d. $10/12 - 5/12$		=
e. $7/8 - 1/8$		=
f. $3/4 - 2/4$		=
g. $4/5 - 3/5$		=

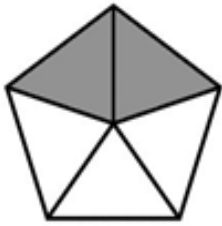
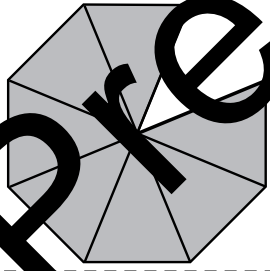
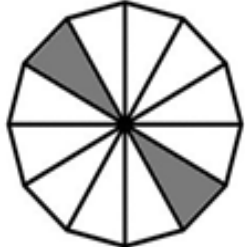
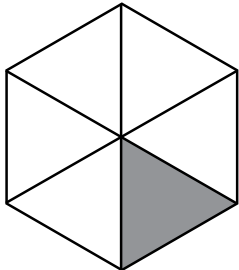
Equivalent Fractions Match 1

Create dominoes by cutting along the dotted lines only on this page and page 15. Pair up or get into groups of three. Shuffle, then divide the dominoes between you equally. Take turns to match the end of each domino with its equivalent fraction (written or visual). If you don't have a matching fraction equivalent, say "pass". Continue until you reach the finish line.

start	$\frac{9}{12}$		$\frac{1}{2}$
$\frac{3}{4}$	$\frac{6}{10}$	$\frac{3}{6}$	$\frac{3}{9}$
$\frac{3}{5}$		$\frac{1}{3}$	$\frac{9}{10}$
$\frac{5}{5}$		$\frac{18}{20}$	$\frac{5}{8}$
$\frac{8}{12}$	$\frac{5}{6}$	$\frac{10}{16}$	
$\frac{10}{12}$	$\frac{4}{5}$	$\frac{5}{20}$	$\frac{3}{8}$
			

Equivalent Fractions Match 2

Cut out these dominoes and add them to the stack on page 14.

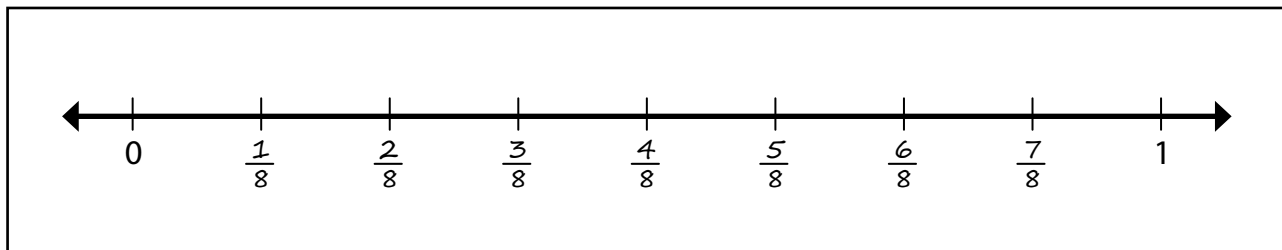
$\frac{6}{16}$		$\frac{15}{20}$	$\frac{11}{12}$
$\frac{6}{15}$	$\frac{1}{7}$	$\frac{22}{24}$	$\frac{4}{14}$
$\frac{2}{14}$	$\frac{1}{2}$		$\frac{6}{9}$
$\frac{4}{8}$		$\frac{2}{3}$	$\frac{4}{40}$
$\frac{14}{16}$	$\frac{2}{4}$	$\frac{1}{10}$	
$\frac{6}{12}$	$\frac{3}{4}$		finish

✂

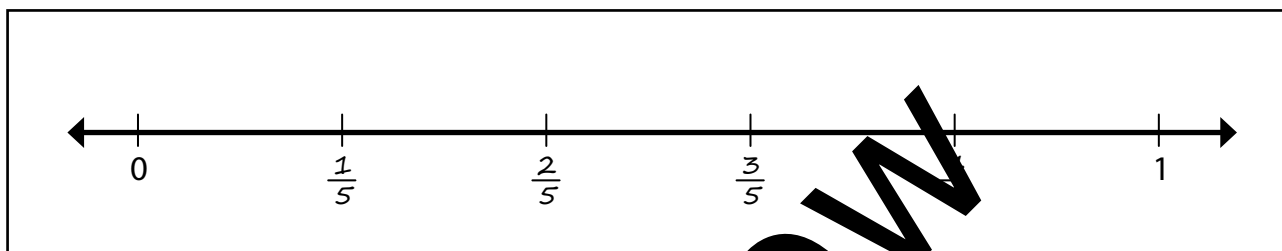
Fraction Problems 1

Read the word problems below which involve the addition and subtraction of fractions. Mark your answers on the number lines.

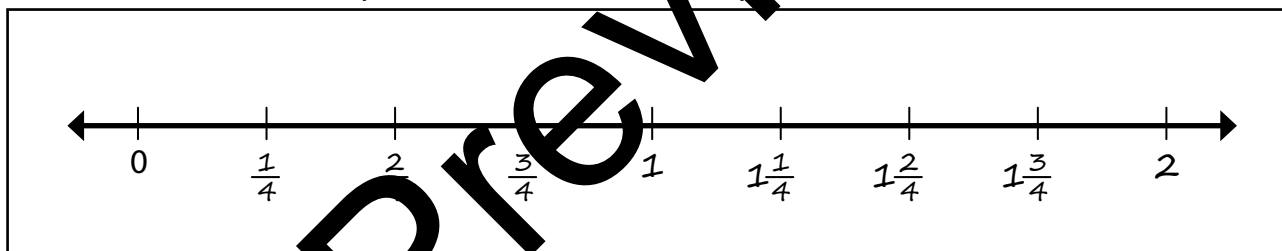
1. Mack drinks $\frac{3}{8}$ of a carton of milk. How much milk is left?



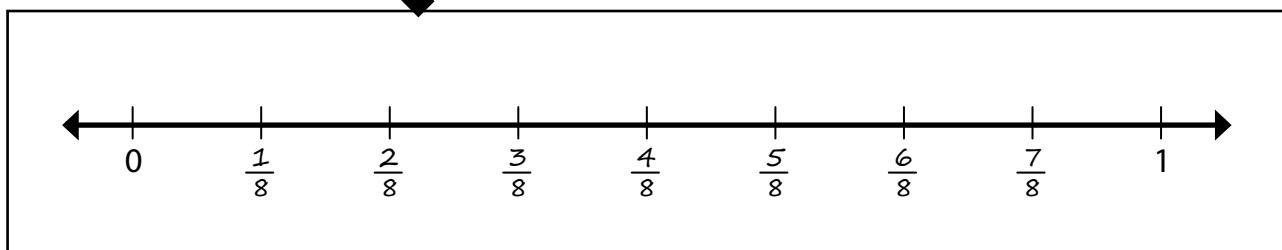
2. After an hour, Dad has assembled $\frac{1}{5}$ of a bookcase. Mum takes over and another $\frac{3}{5}$ of the bookcase is erected. How much of the bookcase is still unfinished?



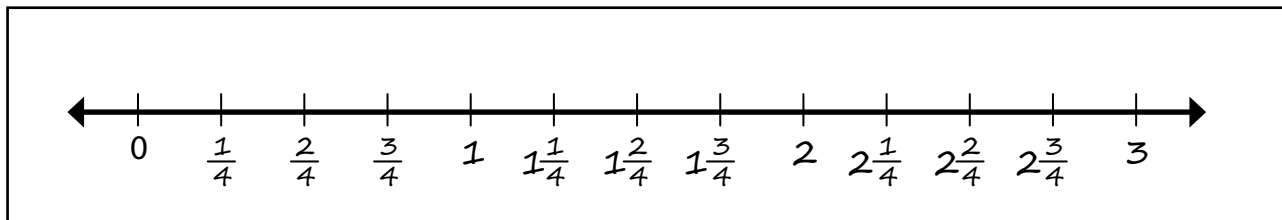
3. Jade orders two pizzas to share with three friends. Jade eats $\frac{1}{2}$ a pepperoni pizza, Cassie eats $\frac{1}{4}$ of a marinara and a $\frac{1}{4}$ of the pepperoni. Toby eats $\frac{3}{4}$ of the marinara. There is no pizza left over. How much pizza did Lucinda eat?



4. Sian bakes a batch of 8 chocolate chip cookies. She can't resist eating 8 of them. What fraction of the cookies are left?



5. The class is preparing a display for Diwali out of sheets of coloured cardboard. One group uses $\frac{3}{4}$ of a green sheet of cardboard, another group uses $1\frac{1}{2}$ sheets of red cardboard and a third group cuts up $\frac{3}{4}$ of a sheet of gold cardboard. How much cardboard does the class use altogether?



Fraction Problems 2

Solve the word problems below about fractions of whole numbers. Show your working out in the spaces provided.

1. Bella and James hold a bake sale to raise money for the local animal shelter. They raise \$125. Bella and James keep $\frac{1}{5}$ of the money to pay Mum for her cooking ingredients. How much do they donate to the animal shelter?

2. Two boxes containing 48 books each, arrive in the library. By morning break the librarian has placed $\frac{3}{8}$ of the books on the shelves. How many books are still in the boxes?

3. Henry buys 40 litres of bright green paint on sale. If it takes 5 litres to paint one room, how many rooms in the house can he paint bright green?

4. Anna has $1\frac{3}{4}$ hours to do her homework, practise her drums and play with her cat. If she wants to divide her time equally among the three activities, how much time will she spend on each?

5. Mr. Picky only chooses perfect cherries to make his pies. Out of 500 cherries, he rejects $\frac{3}{10}$. How many cherries do not end up in Mr. Picky's pies?

6. Kieren wants to make a surprise birthday cake for his Dad. He needs 240g of butter, but he can only find $\frac{2}{3}$ of that amount in the fridge. How much butter does Kieren have?

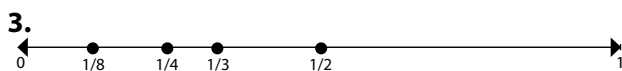
7. Chloe receives a new camera for Christmas. On Boxing Day she takes 28 photos, but only $\frac{3}{4}$ of them are in focus. How many photos are too fuzzy to print?

Answers

Ordering Fractions

- 1.
- a. $1/3$ ● ○ ○
- b. $1/8$ ● ○ ○ ○ ○ ○ ○ ○ ○
- c. $1/6$ ● ○ ○ ○ ○ ○ ○
- d. $1/12$ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

2. The fractions in order are
a) $1/8$ b) $1/9$ c) $1/2$ d) $1/4$ e) $1/5$



4. **a) $1/5$ b) $1/10$**

Adding And Subtracting Fractions 1

1. **a) $3/8$; b) 1; c) $2/8$**
 2. **a) $5/12$; b) $6/12$ or $1/2$; c) $11/12$**
 3. **a) 1; b) $5/9$; c) $2/9$**
 4. **a) $3/7$; b) 1; c) $1/7$**
 5. **a) $2/15$; b) $11/15$; c) $5/15$ or $1/3$**
 6. **a) 1; b) $17/18$; c) $7/18$**

Adding And Subtracting Fractions 2

1. **a) $2/3$; b) $2/10$ or $1/5$; c) $5/6$; d) 1; e) $1/5$**
 2. **a) $3/4$; b) $6/9$ or $1/3$; c) $8/10$ or $4/5$; d) $5/2$; e) $1/8$ or $3/4$; f) $1/4$; g) $1/5$**

Equivalent Fractions Match 1

Sequence solution with cards ending in: $9/12 \rightarrow 3/4$, $6/10 \rightarrow 3/5$, whole octagon $\rightarrow 5/5$, $2/3$ shaded triangle $\rightarrow 8/12$, $5/6 \rightarrow 10/12$, $4/5 \rightarrow 8/10$ shaded circle, $1/2 \rightarrow 3/6$, $3/9 \rightarrow 1/3$, $9/10 \rightarrow 18/20$, $5/8 \rightarrow 10/16$, diamond with $1/4$ shaded $\rightarrow 5/20$, $3/8 \rightarrow 6/16$, pentagon with $2/5$ shaded $\rightarrow 6/15$, $1/7 \rightarrow 2/14$, $1/2 \rightarrow 4/8$, $7/8$ of octagon shaded $\rightarrow 14/16$, $2/4 \rightarrow 6/12$, $3/4 \rightarrow 15/20$, $11/12 \rightarrow 22/24$, $4/14 \rightarrow 2/7$, $6/9 \rightarrow 2/3$, $4/40 \rightarrow 1/10$, $2/12$ shaded on dodecagon $\rightarrow 1/6$ shaded on hexagon FINISH

Fraction Problems 1

1. Mark $5/8$
 2. Mark $1/5$
 3. Mark $1/4$
 4. Mark $6/8$ ($3/4$)
 5. Mark 3

Fraction Problems 2

1. $125 \div 5 = 25$ Donation: \$100
 2. $3/8$ of 96 = 36 books, 60 books left in boxes
 3. $40 \div 5 = 8$ rooms
 4. Total = 105m, $105 \div 3 = 35$ m each activity **5. $3/10$ of 500 = 150 cherries**
 6. $2/3$ of 240g = 160g
 7. $3/4$ of 28 = 21, $28 - 21 = 7$ fuzzy photos