

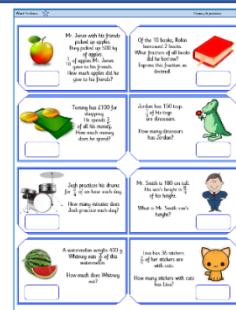
## ★ Word Problems

Children will apply their knowledge and understanding of fractions and decimals to solve word problems in various contexts.

They recap and build their understanding of different measures.

On this sheet, they will solve one-step word problems.

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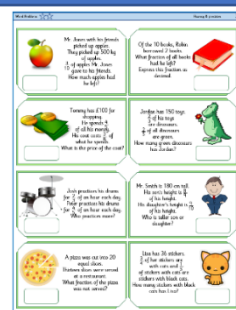
## ★★ Word Problems

Children will apply their knowledge and understanding of fractions and decimals to solve word problems in various contexts.

They recap and build their understanding of different measures.

On this sheet, they will solve two-step word problems.

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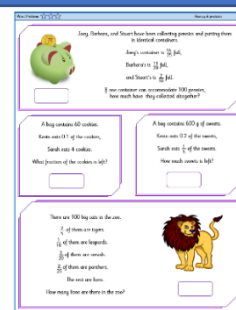
## ★★★ Word Problems

Children will apply their knowledge and understanding of fractions and decimals to solve word problems in various contexts.

They recap and build their understanding of different measures.

On this sheet, they will solve multi-step word problems.

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## Reasoning & Problem Solving

### Word Problems

Children continue working on their understanding of fractions of an amount by answering reasoning questions.

**Word Problems**

In a bag full of small balls:

$\frac{1}{2}$  of these balls are green,

$\frac{1}{4}$  are blue,

$\frac{1}{8}$  are yellow

and the remaining 10 are white.

How many balls are in the bag?

How many balls are blue?

What fraction of all of the balls are white balls?

**Reasoning & Problem Solving**

There are some flowers in the garden.

$\frac{1}{3}$  of all of the flowers are roses,

$\frac{1}{6}$  of all of the flowers are lilies,

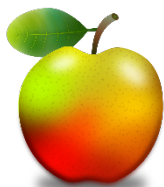
$\frac{1}{2}$  of all of the flowers are daffodils

and the remaining 10 are peons.

How many flowers are in the garden?

How many flowers are roses?

What fraction of all of the flowers are peons?



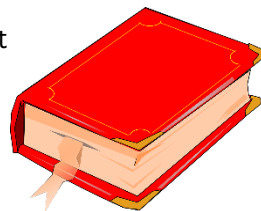
Mr. Jones picked some apples with his friends.

They picked up 500 kg of apples.

Mr. Jones gave  $\frac{1}{10}$  to his friends. How much in kg did he give to his friends?

Robin borrowed 2 books out of 10 books.

What fraction of books did he borrow?



Tommy has £100 for shopping.

He spends  $\frac{3}{5}$  of all his money.

How much money does he spend?

Jordan has 150 toys.

$\frac{1}{3}$  of his toys are dinosaurs.

How many dinosaurs does Jordan have?



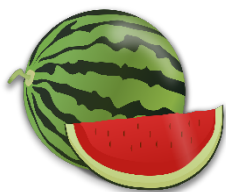
Josh practises his drums for  $\frac{3}{4}$  of an hour each day.

How many minutes does Josh practise each day?

Mr. Smith is 180 cm tall.

His son's height is  $\frac{8}{9}$  of his height.

What is Mr. Smith son's height?



A watermelon weighs 400 g. Whitney eats  $\frac{3}{8}$  of this watermelon.

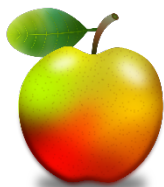
How much does Whitney eat?

Lisa has 36 stickers.

$\frac{2}{9}$  of her stickers are cats.

How many cat stickers has Lisa got?





Mr. Jones picked some apples with his friends.

They picked up 500 kg of apples.

Mr. Jones gave  $\frac{1}{10}$  to his friends.

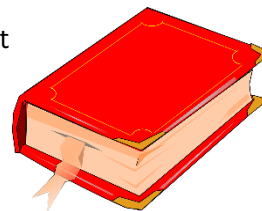
How much in kg did he give to his friends?

$\frac{1}{10}$  of 500 kg is 50 kg

50 kg

Robin borrowed 2 books out of 10 books.

What fraction of books did he borrow?



2 books of 10 is  $\frac{2}{10}$

$\frac{2}{10}$



Tommy has £100 for shopping.

He spends  $\frac{3}{5}$  of all his money.

How much money does he spend?

$\frac{3}{5}$  of £100 is £60

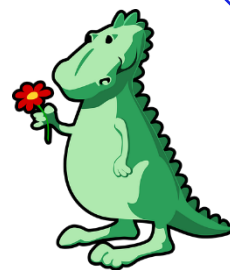
£60

Jordan has 150 toys.

$\frac{1}{3}$  of his toys are dinosaurs.

How many dinosaurs does Jordan have?

$\frac{1}{3}$  of 150 is 50



50 dinosaurs



Josh practises his drums for  $\frac{3}{4}$  of an hour each day.

How many minutes does Josh practise each day?

45 minutes

$\frac{3}{4}$  of 1 hour is 45 minutes

Mr. Smith is 180 cm tall.

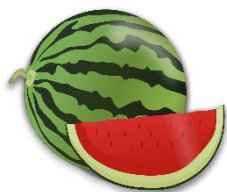
His son's height is  $\frac{8}{9}$  of his height.

What is Mr. Smith son's height?

$\frac{8}{9}$  of 180 cm is 160 cm



160 cm



A watermelon weighs 400 g.

Whitney eats  $\frac{3}{8}$  of this watermelon.

How much does Whitney eat?

150 g

$\frac{3}{8}$  of 400 g is 150 g

Lisa has 36 stickers.

$\frac{2}{9}$  of her stickers are cats.

How many cat stickers has Lisa got?

$\frac{2}{9}$  of 36 is 8 stickers



8 stickers



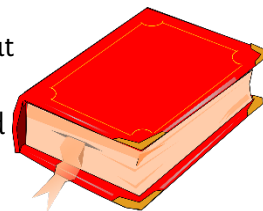
Mr. Jones picked some apples with his friends.

They picked up 500 kg of apples.

Mr. Jones gave  $\frac{3}{10}$  to his friends.  
How much apples did he have left in kg?

Robin borrowed 2 books out of 10 books.

What fraction of books did he have left?





Tommy has £100 for shopping.

He spends  $\frac{4}{5}$  of all his money.  
His coat costs  $\frac{3}{8}$  of what he spends.

What is the price of the coat?

Jordan has 150 toys.

$\frac{2}{3}$  of his toys are dinosaurs.

$\frac{2}{5}$  of all of the dinosaurs are green.

How many green dinosaurs has Jordan got?





Josh practises his drums for  $\frac{2}{3}$  of an hour each day.

Peter practises his drums for  $\frac{4}{5}$  of an hour each day.

Who practises more?

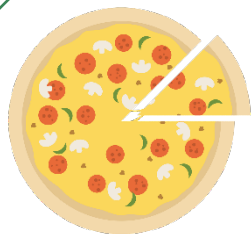
Mr. Smith is 180 cm tall.

His son's height is  $\frac{8}{9}$  of his height.

His daughter's height is  $\frac{9}{10}$  of his height.

Who is taller, his son or daughter?





A pizza was cut into 20 equal slices.

Thirteen slices were served at a restaurant.

What fraction of the pizza was not served?

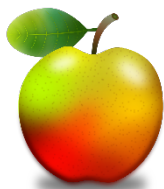
Lisa has 36 stickers.

$\frac{3}{4}$  of her stickers are cats and  $\frac{1}{3}$  of the cat stickers are

stickers with black cats.

How many stickers with black cats has Lisa got?





Mr. Jones picked some apples with his friends.

They picked up 500 kg of apples.

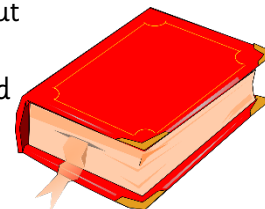
Mr. Jones gave  $\frac{3}{10}$  to his friends. How much apples did he have left in kg?

350 kg

$\frac{3}{10}$  of 500 kg is 150 kg  
 $500 \text{ kg} - 150 \text{ kg} = 350 \text{ kg}$

Robin borrowed 2 books out of 10 books.

What fraction of books did he have left?



$10 \text{ books} - 2 \text{ books} = 8 \text{ books}$

8 books of 10 is  $\frac{8}{10}$

$\frac{8}{10}$



Tommy has £100 for shopping.

He spends  $\frac{4}{5}$  of all his money.

His coat costs  $\frac{3}{8}$  of what he spends.

What is the price of the coat?

£30

$\frac{4}{5}$  of £100 is £80,  
 $\frac{3}{8}$  of £80 is £30

Jordan has 150 toys. of his toys are dinosaurs.

$\frac{2}{5}$  of all of the dinosaurs are green.

How many green dinosaurs has Jordan got?



$\frac{2}{3}$  of 150 is 100,  
 $\frac{2}{5}$  of 100 is 40

40 green dinosaurs



Josh practises his drums for  $\frac{2}{3}$  of an hour each day.

Peter practises his drums for  $\frac{4}{5}$  of an hour each day.

Who practises more?

$\frac{2}{3}$  of 1 hour is 40 minutes,

$\frac{4}{5}$  of 1 hour is 48 minutes

Peter

Mr. Smith is 180 cm tall.

His son's height is  $\frac{8}{9}$  of his height.

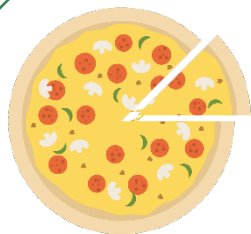
His daughter's height is  $\frac{9}{10}$  of his height.

Who is taller, his son or daughter?

$\frac{8}{9}$  of 180 cm is 160 cm,  
 $\frac{9}{10}$  of 180 cm is 162 cm



Daughter



A pizza was cut into 20 equal slices.

Thirteen slices were served at a restaurant.

What fraction of the pizza was not served?

$\frac{7}{20}$

$20 - 13 = 7 \text{ slices}$ ,  
 7 of 20 slices is  $\frac{7}{20}$

Lisa has 36 stickers.

$\frac{3}{4}$  of her stickers are cats and  $\frac{1}{3}$

of the cat stickers are stickers with black cats.

How many stickers with black cats has Lisa?

$\frac{3}{4}$  of 36 is 27 stickers,  
 $\frac{1}{3}$  of 27 is 9 stickers



9 stickers



Joey, Barbara, and Stuart have been collecting pennies and putting them in identical piggy banks.

Joey's piggy bank is  $\frac{16}{25}$  full,

Barbara's is  $\frac{11}{20}$  full,

and Stuart's is  $\frac{7}{10}$  full.

If one piggy bank can accommodate 100 pennies,  
how much have they collected altogether?

A bag contains 60 cookies.

Kevin eats 0.1 of the cookies,

Sarah eats 4 cookies.

What fraction of the cookies are left?

A bag contains 600 g of sweets.

Kevin eats 0.2 of the sweets,

Sarah eats  $\frac{1}{6}$  of the sweets.

How much sweets are left?

There are 100 big cats in the zoo.

$\frac{2}{5}$  of them are tigers.

$\frac{1}{10}$  of them are leopards.

$\frac{3}{20}$  of them are cheetahs.

$\frac{2}{25}$  of them are panthers.

The rest are lions.

How many lions are there in the zoo?





Joey, Barbara, and Stuart have been collecting pennies and putting them in piggy banks containers.

Joey's piggy bank is  $\frac{16}{25}$  full,  $\frac{16}{25}$  of 100 is 64p

Barbara's is  $\frac{11}{20}$  full,  $\frac{11}{20}$  of 100 is 55p

and Stuart's is  $\frac{7}{10}$  full.  $\frac{7}{10}$  of 100 is 70p

189p

If one piggy bank can accommodate 100 pennies,  
how much have they collected altogether?

$$64p + 55p + 70p = 189p$$

A bag contains 60 cookies.

Kevin eats 0.1 of the cookies,  
 $0.1$  of the cookies is 6 cookies.

Sarah eats 4 cookies.  
Together they eat 10 cookies.

What fraction of the cookies are left?

$$60 - 10 = 50 \text{ cookies of } 60 \text{ cookies is } \frac{5}{6}$$

$\frac{5}{6}$

A bag contains 600 g of sweets.

Kevin eats 0.2 of the sweets,  
 $0.2$  of 600 g is 120 g.

Sarah eats  $\frac{1}{6}$  of the sweets.  
 $\frac{1}{6}$  of 600 g is 100 g.

How much sweets are left?

$$\text{Together they eat } 120 \text{ g} + 100 \text{ g} = 220 \text{ g} \\ \text{and } 600 \text{ g} - 220 \text{ g} = 380 \text{ g is left.}$$

380 g

There are 100 big cats in the zoo.

$\frac{2}{5}$  of them are tigers.  $\frac{2}{5}$  of 100 is 40.

$\frac{1}{10}$  of them are leopards.  $\frac{1}{10}$  of 100 is 10.

$\frac{3}{20}$  of them are cheetahs.  $\frac{3}{20}$  of 100 is 15.

$\frac{2}{25}$  of them are panthers.  $\frac{2}{25}$  of 100 is 8.

The rest are lions.

$$\text{There are } 100 - 40 - 10 - 15 - 8 = 27 \text{ lions.}$$

How many lions are there in the zoo?



27 lions

In a bag full of small balls:

$\frac{1}{2}$  of these balls are green,

$\frac{1}{4}$  are blue,

$\frac{1}{8}$  are yellow

and the remaining 10 are white.

How many balls are in the bag?

How many balls are blue?

What fraction of all of the balls are white balls?



There are some flowers in the garden.

$\frac{1}{3}$  of all of the flowers are roses,

$\frac{1}{6}$  of all of the flowers are lilies,

$\frac{1}{12}$  of all of the flowers are daffodils

and the remaining 10 are peons.

How many flowers are in the garden?

How many flowers are roses?

What fraction of all of the flowers are peons?



In a bag full of small balls:

$\frac{1}{2}$  of these balls are green,

$\frac{1}{4}$  are blue,

$\frac{1}{8}$  are yellow

and the remaining 10 are white.

How many balls are in the bag?

How many balls are blue?

What fraction of all of the balls are white balls?



There are some flowers in the garden.

$\frac{1}{3}$  of all of the flowers are roses,

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$\frac{1}{12}$  of all of the flowers are daffodils

and the remaining 10 are peons.

How many flowers are in the garden?

How many flowers are roses?

What fraction of all of the flowers are peons?



In a bag full of small balls:

$\frac{1}{2}$  of these balls are green,

$\frac{1}{4}$  are blue,

$\frac{1}{8}$  are yellow

and the remaining 10 are white.

How many balls are in the bag? 80

How many balls are blue? 20

What fraction of all balls are white balls?  $\frac{1}{8}$



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There are some flowers in the garden.

$\frac{1}{3}$  of all flowers are roses,

$\frac{1}{6}$  of all flowers are lilies,

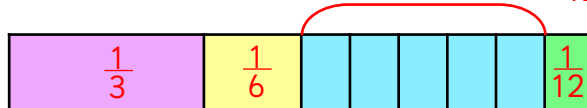
$\frac{1}{12}$  of all flowers are daffodils

and the remaining 10 are peons.

How many flowers are in the garden? 24

How many flowers are roses? 8

What fraction of all flowers are peons?  $\frac{5}{12}$



In a bag full of small balls:

$\frac{1}{2}$  of these balls are green,

$\frac{1}{4}$  are blue,

$\frac{1}{8}$  are yellow

and the remaining 10 are white.

How many balls are in the bag? 80

How many balls are blue? 20

What fraction of all balls are white balls?  $\frac{1}{8}$



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and the remaining 10 are peons.

How many flowers are in the garden? 24

How many flowers are roses? 8

What fraction of all flowers are peons?  $\frac{5}{12}$

