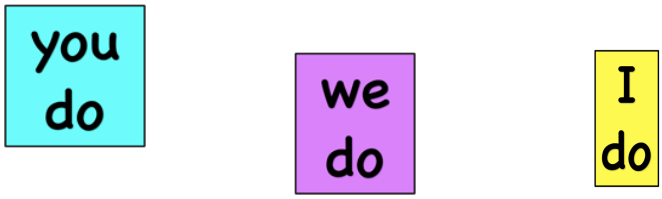
Mathsbot - times and divide fractions

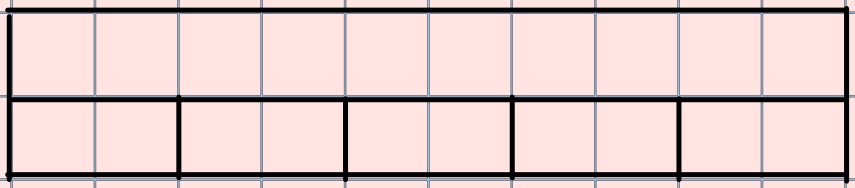


LO: to find fractions of amounts

I do

How would I find.....

$\frac{3}{5}$ of 150 = ☐

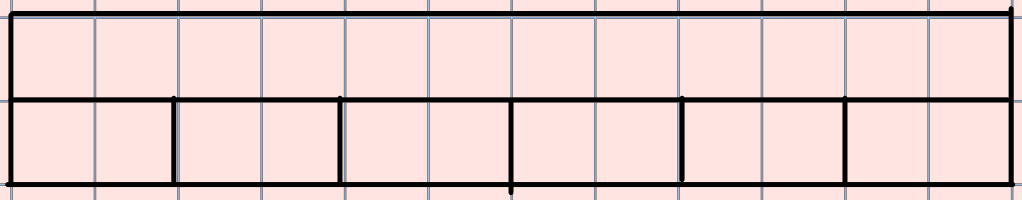


LO: to find fractions of amounts

I do

How would I find.....

$\frac{4}{6}$ of 720 = ☐

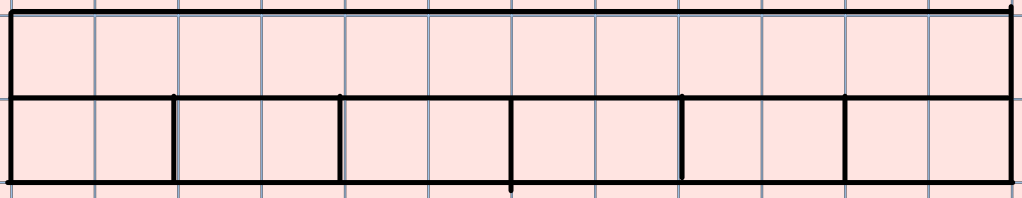


LO: to find fractions of amounts

I do

How would I find.....

$\frac{3}{8}$ of 92 = ☐

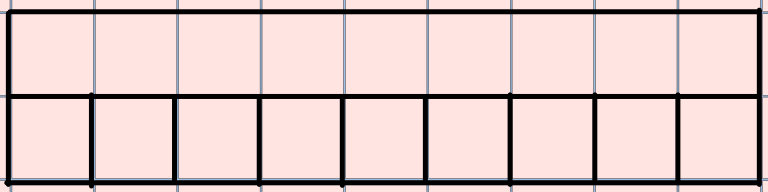


LO: to find fractions of amounts

we do

How would I find.....

$\frac{5}{9}$ of 981 = ☐

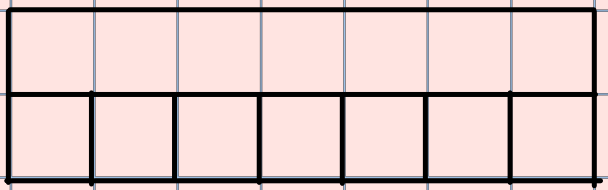


LO: to find fractions of amounts

we do

How would I find.....

$\frac{5}{7}$ of 3 5 7 = ☐



LO: to find fractions of amounts

you do

How would I find.....

$\frac{2}{3}$ of 213 = ☐

$\frac{5}{12}$ of 1224 = ☐

LO: to find fractions of amounts

you do

5 minutes - Complete in books.

$\frac{9}{15}$ of 315 =

$\frac{7}{12}$ of 684 =

$\frac{2}{8}$ of 842 =

LO: to find fractions of amounts

I do

How would I solve...

Two families, the Smiths and the Taylors, go to a restaurant for a meal. At the end of the night, when they pay their £177 bill, they decide to split the bill equally between the two families. Mr Smith pays for his family's half of the bill. The Taylor family, however, decide to split their half of the bill between each of their family members, each member paying $\frac{1}{3}$ of their family's bill.

a. How much do the Smiths pay?

b. How much do each member of the Taylor family pay?

LO: to find fractions of amounts

we do

How would I solve...

At the local triathlon, competitors travel a total distance of 25km. They cycle $\frac{4}{5}$ of the distance. From the remainder of the distance, they run $\frac{9}{10}$ and swim $\frac{1}{10}$.

a. How far do the competitors cycle?
b. How far do the competitors run?
c. How far do the competitors swim?

LO: to find fractions of amounts

you do

How would I solve...

At the Olympics, a country won 84 medals. $\frac{1}{2}$ of the medals were gold, $\frac{1}{3}$ of the medals were silver and $\frac{1}{6}$ of the medals were bronze.

a. How many medals were gold?
b. How many medals were silver?
c. How many medals were bronze?

LO: to find fractions of amounts

you do

Glue in and complete in books. Show your working out.

At the local triathlon, competitors travel a total distance of 25km. They cycle $\frac{4}{5}$ of the distance. From the remainder of the distance, they run $\frac{9}{10}$ and swim $\frac{1}{10}$.

a. How far do the competitors cycle?
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a. How many medals were gold?
b. How many medals were silver?
c. How many medals were bronze?

A cake maker is baking a wedding cake that needs three different sized tiers. The mixture weighs 4005g. He uses $\frac{5}{9}$ of the mixture for the bottom tier, $\frac{1}{3}$ of the mixture for the middle tier and $\frac{1}{9}$ of the mixture for the top tier.

a. What is the weight of the mixture in the bottom tier in g and kg?
b. What is the weight of the mixture in the middle tier in g and kg?
c. What is the weight of the mixture in the top tier in g and kg?

Get your pink highlighter ready to mark!

we do

At the local triathlon, competitors travel a total distance of 25km. They cycle $\frac{4}{5}$ of the distance. From the remainder of the distance, they run $\frac{9}{10}$ and swim $\frac{1}{10}$.

a. How far do the competitors cycle? **20km**
b. How far do the competitors run? **4.5km**
c. How far do the competitors swim? **0.5km**

At the Olympics, a country won 84 medals. $\frac{1}{2}$ of the medals were gold, $\frac{1}{3}$ of the medals were silver and $\frac{1}{6}$ of the medals were bronze.

a. How many medals were gold? **42**
b. How many medals were silver? **28**
c. How many medals were bronze? **14**

A cake maker is baking a wedding cake that needs three different sized tiers. The mixture weighs 4005g. He uses $\frac{5}{9}$ of the mixture for the bottom tier, $\frac{1}{3}$ of the mixture for the middle tier and $\frac{1}{9}$ of the mixture for the top tier.

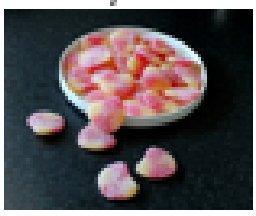
a. What is the weight of the mixture in the bottom tier in g and kg? **2225g** or **2.225kg**
b. What is the weight of the mixture in the middle tier in g and kg? **1335g** or **1.335kg**
c. What is the weight of the mixture in the top tier in g and kg? **445g** or **0.445kg**

LO: to find fractions of amounts

we do

Would you rather.....

For charity, you are organising a sweet stall at playtime. You have 7500 sweets to sell. You can either sell 7/12 or 8/15 of this amount.



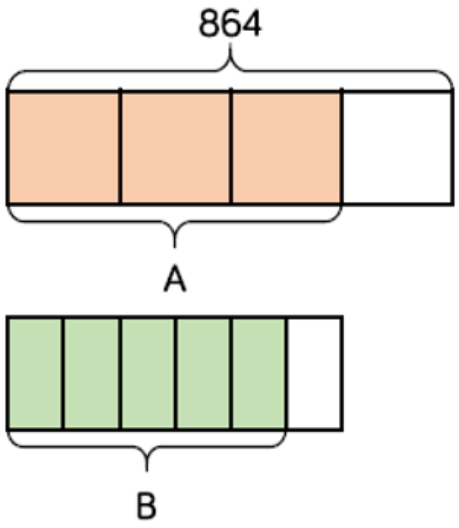
Which fraction of the sweets would you sell on your stall so that you had the greatest amount of sweets to sell for charity?

Discuss

LO: to find fractions of amounts

we do

What is the value of A?
What is the value of B?



Discuss

LO: to find fractions of amounts

we do

9b. Use the cards to balance the statement below. Each card can only be used once in a statement. Find 2 different solutions.

$\frac{\square}{\square}$ of 300 = $\frac{\square}{\square}$ of 240

25	88	22	11	55	50

GD

PS

Discuss

LO: to find fractions of amounts

Glue in and complete in books. Show your working out.

you do

Would you rather.....

For charity, you are organising a sweet stall at playtime. You have 7500 sweets to sell. You can either sell 7/12 or 8/15 of this amount.

Which fraction of the sweets would you sell on your stall so that you had the greatest amount of sweets to sell for charity?

8b. Leo and Moses share £3,300.

Leo says,

I have $\frac{6}{22}$ of the money.

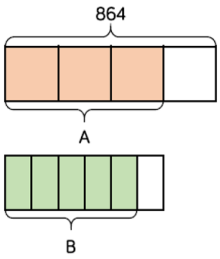
Moses says,

I have $\frac{10}{25}$ of the money.

Who has the most money? Convince me.

R

What is the value of A?
What is the value of B?



9b. Use the cards to balance the statement below. Each card can only be used once in a statement. Find 2 different solutions.

$\frac{\square}{\square}$ of 300 = $\frac{\square}{\square}$ of 240

25	88	22	11	55	50

PS

Alison says that 1/9 of £350 is £38.89 rounded to the nearest penny. Is Alison correct?

we do

Get your pink highlighter ready to mark!

Would you rather: 7/12 is 4375, 8/15 is 4000

8b. Leo (6/22) has £900, Moses (10/25) has £1320

9b. 11/55 of 300 = 22/88 of 240

A = 648, B = 540

Alison = Yes because 38.888 (recurring) would round up.

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