

LO: to find fractions of amounts

you
do

$\frac{1}{3}$ of 12

B3.0

$\frac{5}{14}$ of 56

C3.0

$\frac{3}{5}$ of 225

$\frac{2}{7}$ of 35

B4.0

$\frac{4}{13}$ of 78

C4.0

$\frac{1}{19}$ of 304

$\frac{7}{8}$ of 64

B5.0

$\frac{3}{10}$ of 120

C5.0

$\frac{1}{3}$ of 75

$\frac{1}{5}$ of 60

B6.0

$\frac{1}{5}$ of 405

C6.0

$1\frac{1}{15}$ of 90

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4	B3.0	20	C3.0	135
10	B4.0	24	C4.0	16
56	B5.0	36	C5.0	25
12	B6.0	81	C6.0	96

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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?

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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 $\frac{1}{10}$.

- How far do the competitors cycle?
- How far do the competitors run?
- How far do the competitors swim?

[illegible]

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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?

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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?
- b. How far do the competitors run?
- c. How far do the competitors swim?

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?

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.

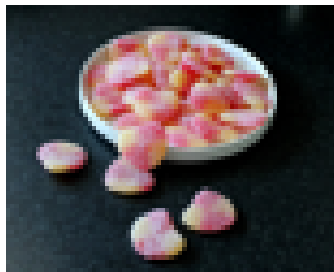
- a. What is the weight of the mixture in the bottom tier in g and kg? 2225g or 2.225kg
- b. What is the weight of the mixture in the middle tier in g and kg? 1335g or 1.335kg
- c. What is the weight of the mixture in the top tier in g and kg? 445g or 0.445kg

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Would you rather.....

For charity, you are organising a sweet stall at playtime. You have 7500 sweets to sell. You can either sell $\frac{7}{12}$ or $\frac{8}{15}$ 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?

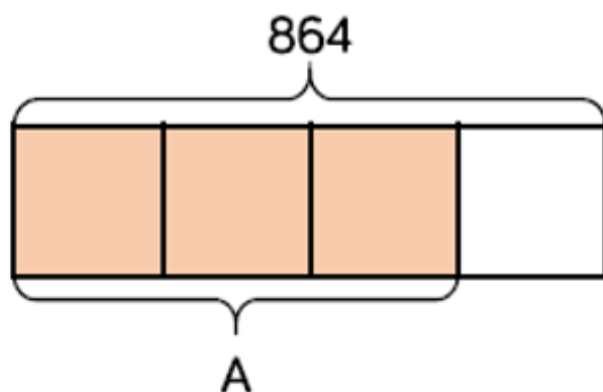
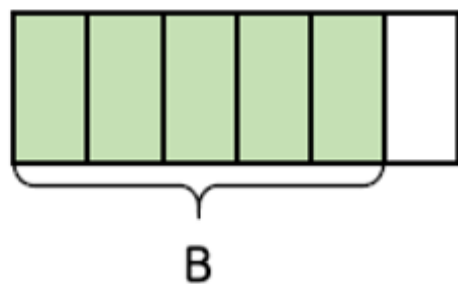
Discuss

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What is the value of A?

What is the value of B?



Discuss

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

$$\frac{\boxed{}}{\boxed{}} \text{ of } 300 = \frac{\boxed{}}{\boxed{}} \text{ of } 240$$

25	88	22	11	55	50
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PS

Discuss

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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 $\frac{7}{12}$ or $\frac{8}{15}$ 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,

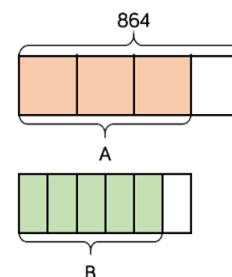


I have $\frac{10}{25}$ of the money.

Who has the most money? Convince me.



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.

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

25

88

22

11

55

50



PS

Alison says that $\frac{1}{9}$ of £350 is £38.89 rounded to the nearest penny. Is Alison correct?

Get your pink highlighter ready to mark!

we
do

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.