Year 3 – Spring Block 5 – Fractions

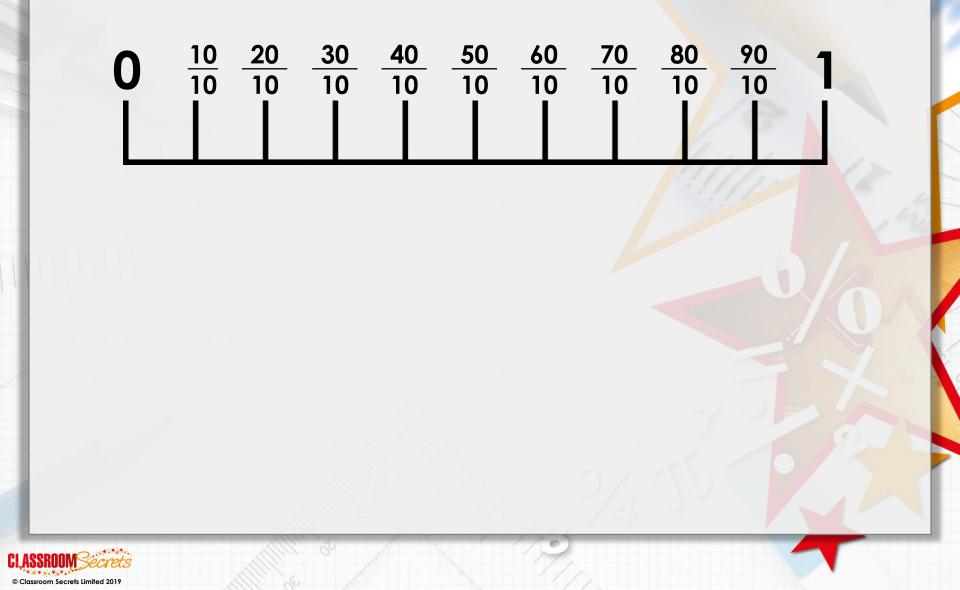
Monday

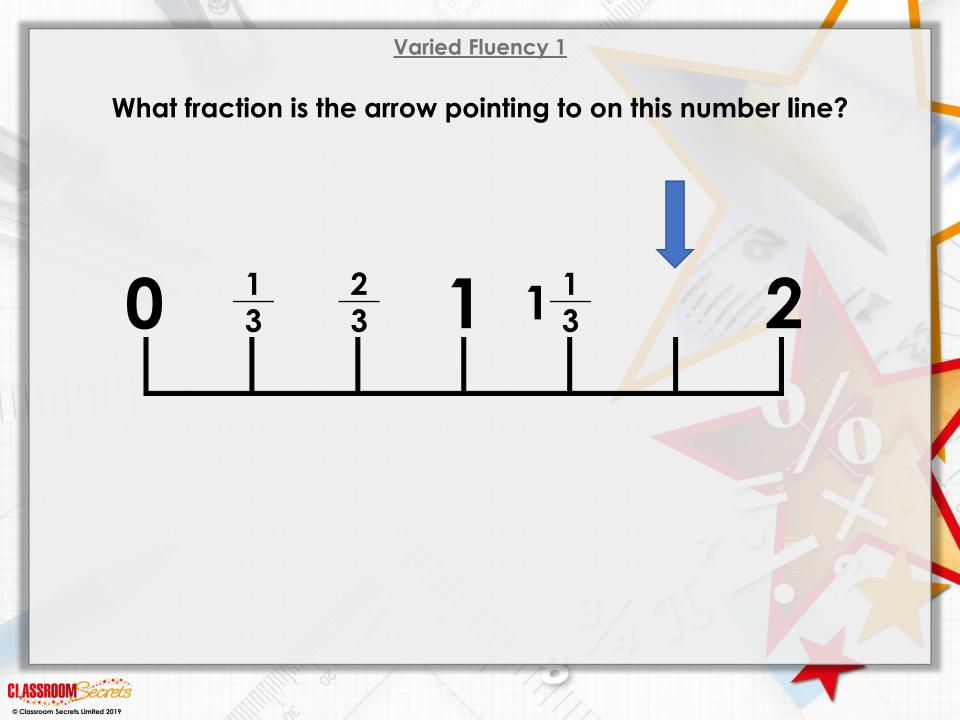
Step 6: Fractions on a Number Line

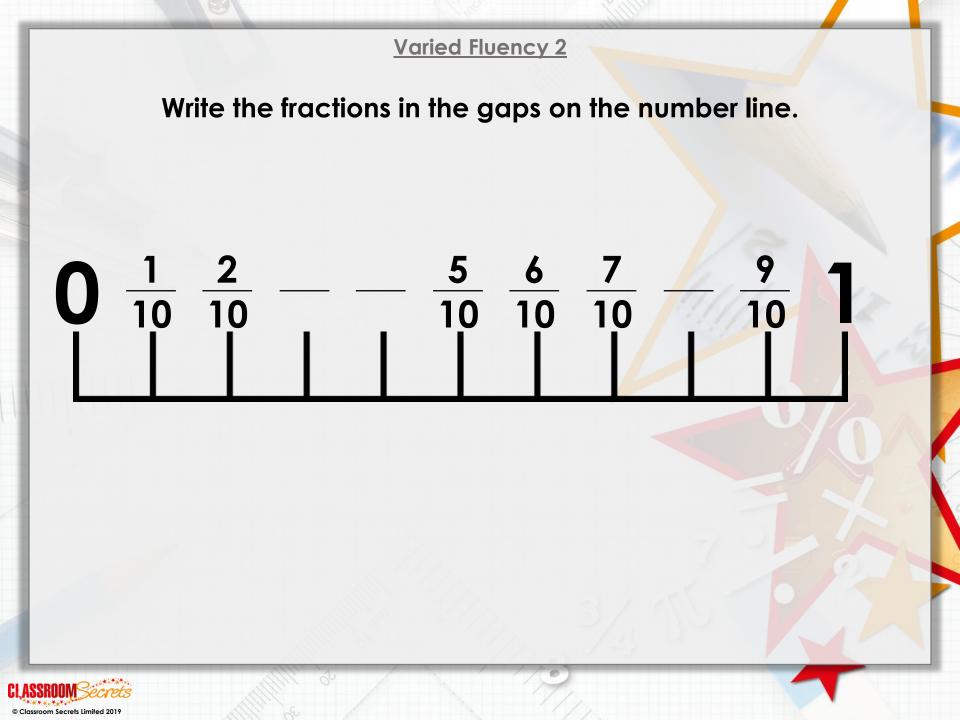


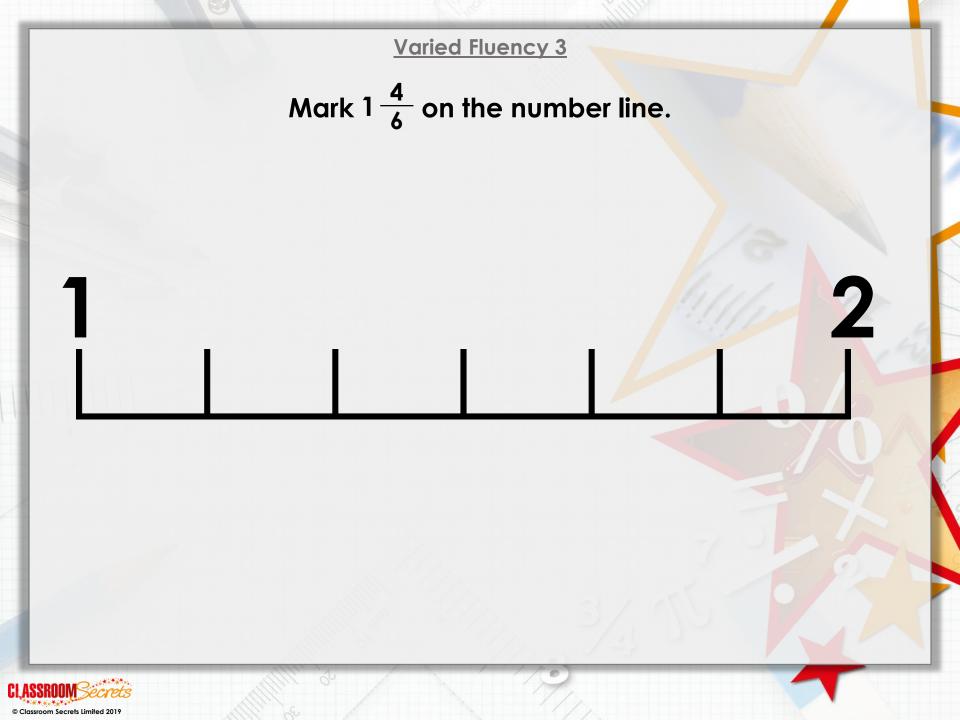


Has Surinder written the fractions on this number line correctly?









True or false? The fractions on this number line are correct.

$3_{\frac{1}{8}2\frac{1}{8}2\frac{2}{8}2\frac{3}{8}2\frac{4}{8}2\frac{5}{8}2\frac{6}{8}2\frac{7}{8}2\frac$



Reasoning 1

Danielle says,



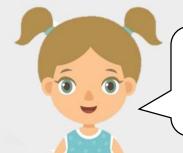
If I start on $1\frac{2}{5}$ and count on 7 more fifths, I will end up on 3.

Draw a number line to work out if she is correct. Explain your answer.



Reasoning 1

Danielle says,



If I start on $1\frac{2}{5}$ and count on 7 more fifths, I will end up on 3.

Draw a number line to work out if she is correct. Explain your answer.

No, Danielle is incorrect because...



Problem Solving 1

Aleksander walks to his friend's house.

He rests when he is $\frac{3}{7}$ of the way there.

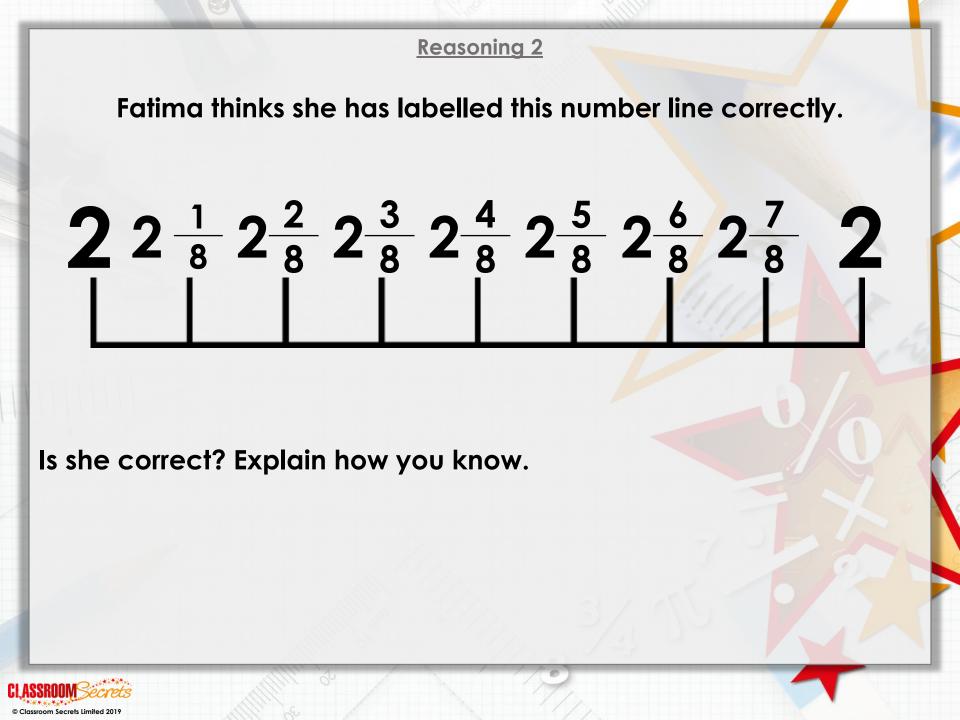
At $\frac{6}{7}$ of the way there, he stops at the shop to buy a drink.

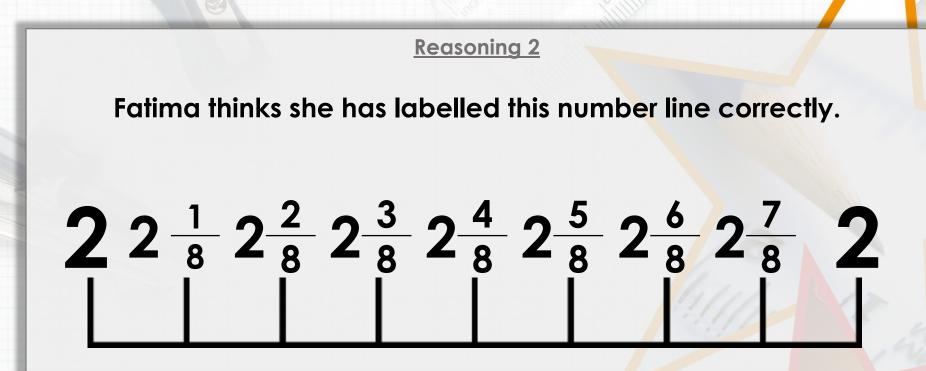
Show Aleksander's journey on the blank number line.

Friend's House



Home





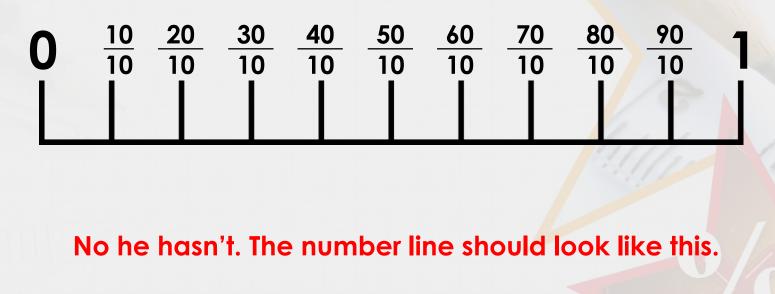
Is she correct? Explain how you know.

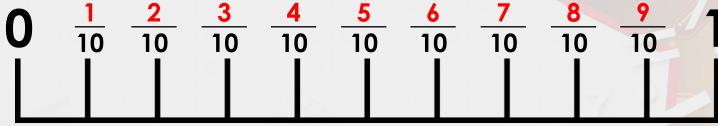
She is incorrect because...



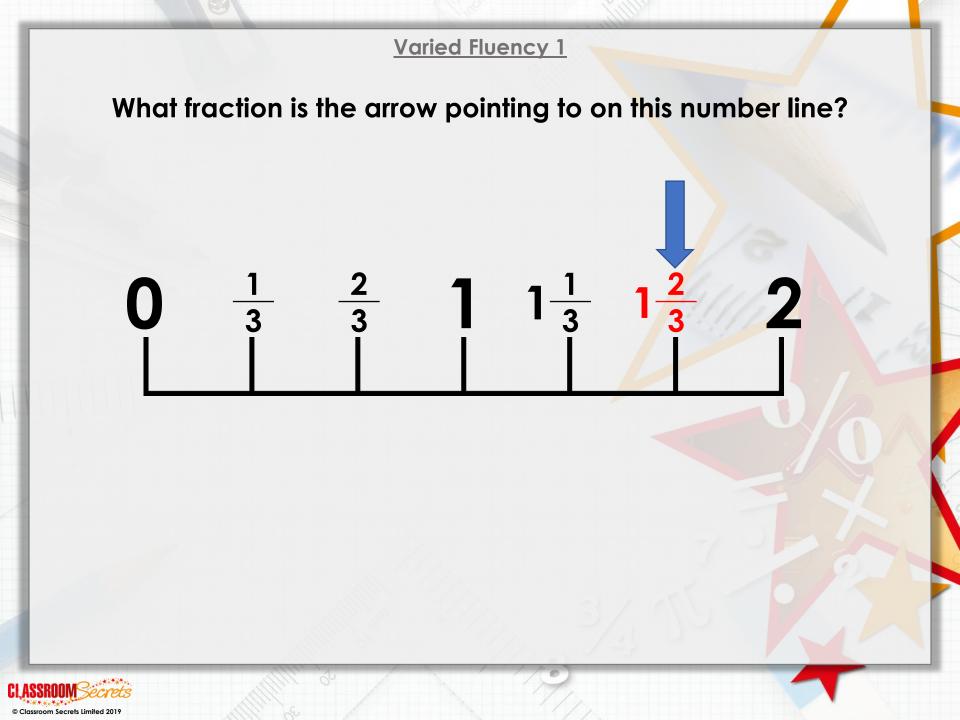
Introduction

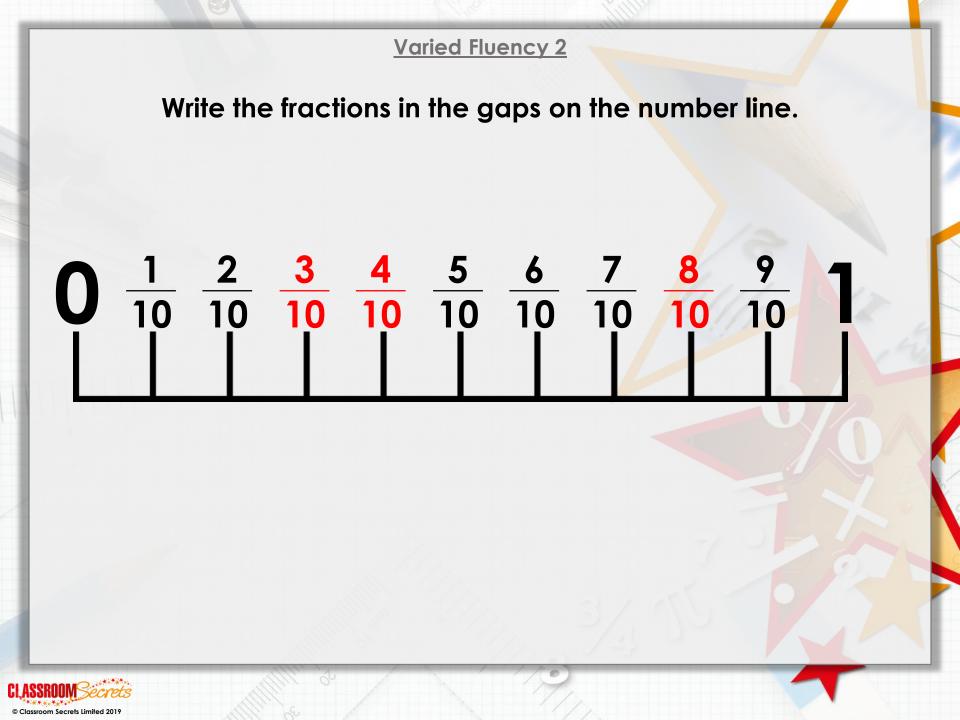
Has Surinder written the fractions on this number line correctly?

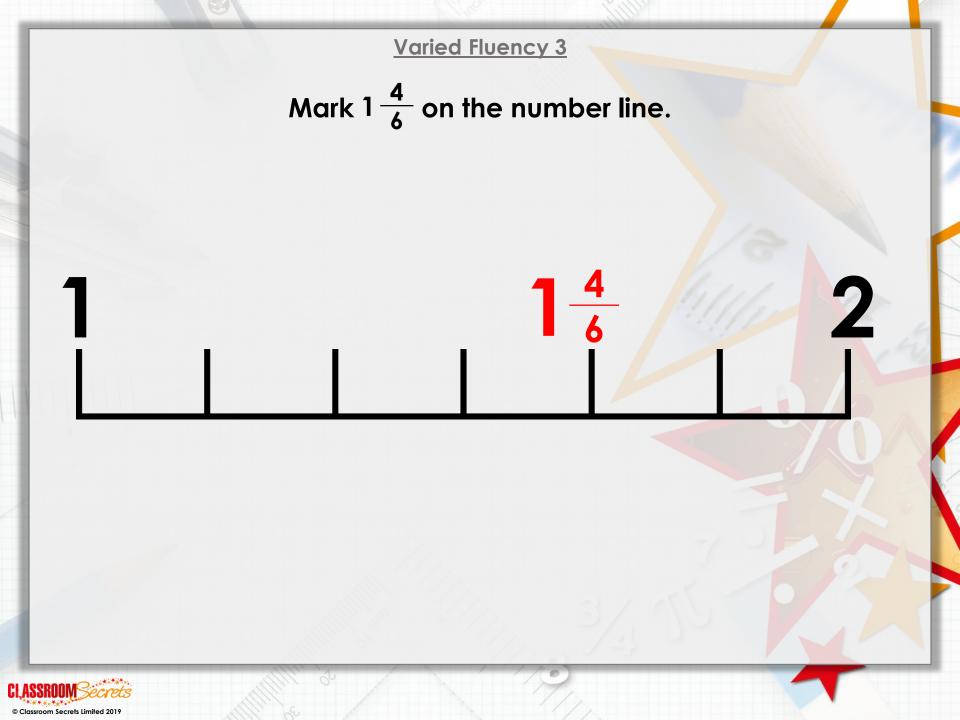












True or false? The fractions on this number line are correct.

$\frac{3}{8}2\frac{1}{8}2\frac{2}{8}2\frac{3}{8}2\frac{4}{8}2\frac{5}{8}2\frac{6}{8}2\frac{7}$

False; the whole numbers at each end of the number line are in the wrong positions.



Reasoning 1

Danielle says,



If I start on $1\frac{2}{5}$ and count on 7 more fifths, I will end up on 3.

Draw a number line to work out if she is correct. Explain your answer.

No, Danielle is incorrect because she will land on $2\frac{4}{5}$.

Accept answers which use a number line to show this.



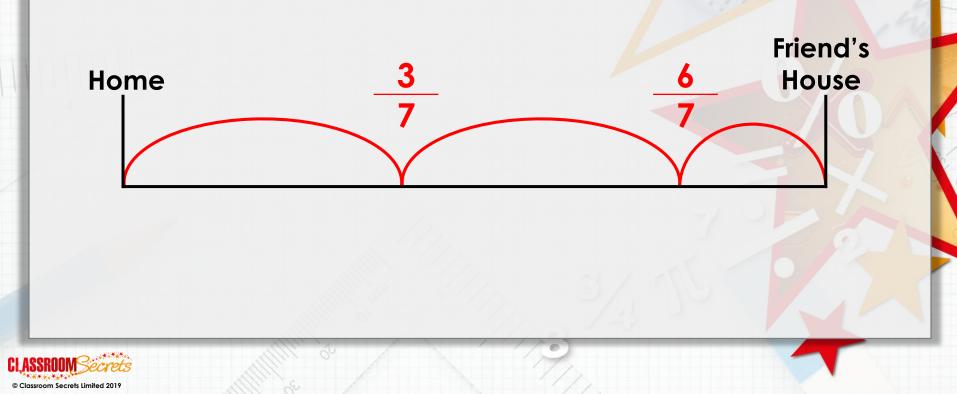
Problem Solving 1

Aleksander walks to his friend's house.

He rests when he is $\frac{3}{7}$ of the way there.

At $\frac{6}{7}$ of the way there, he stops at the shop to buy a drink.

Show Aleksander's journey on the blank number line.





Fatima thinks she has labelled this number line correctly.

$2 \frac{1}{8} 2 \frac{2}{8} 2 \frac{3}{8} 2 \frac{4}{8} 2 \frac{5}{8} 2 \frac{6}{8} 2 \frac{7}{8} 2 \frac{$

Is she correct? Explain how you know.

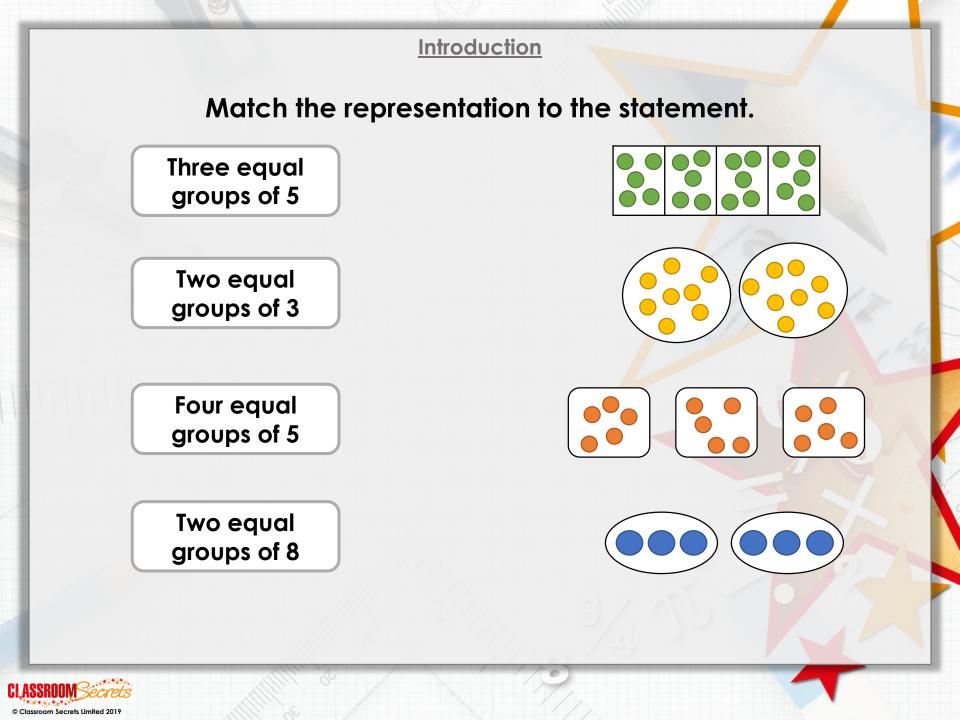
She is incorrect because the whole number at the end of the number line should be 3, not 2.



Year 3 – Spring Block 5 – Fractions

Step 7: Fractions of an Amount 1





This is
$$\frac{1}{3}$$
 of a bag of sweets.

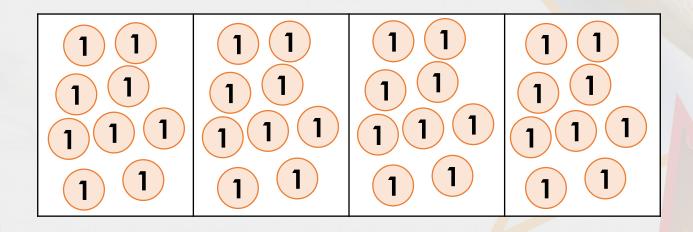




Find $\frac{1}{10}$ of 40 by circling equal groups.



Fill in the gaps to show the calculation this bar model represents.

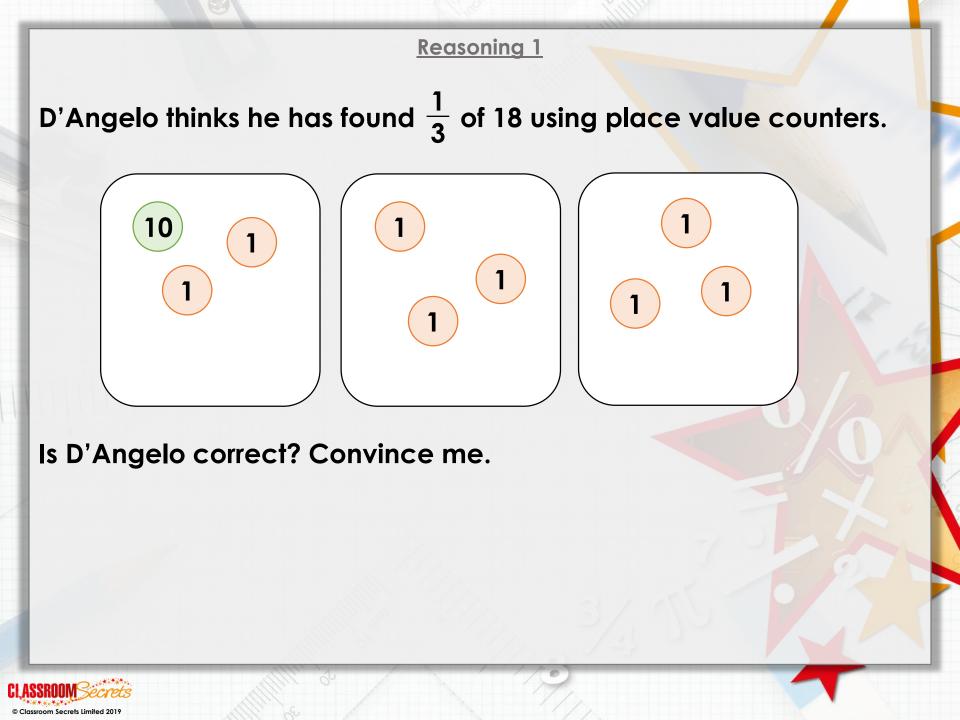


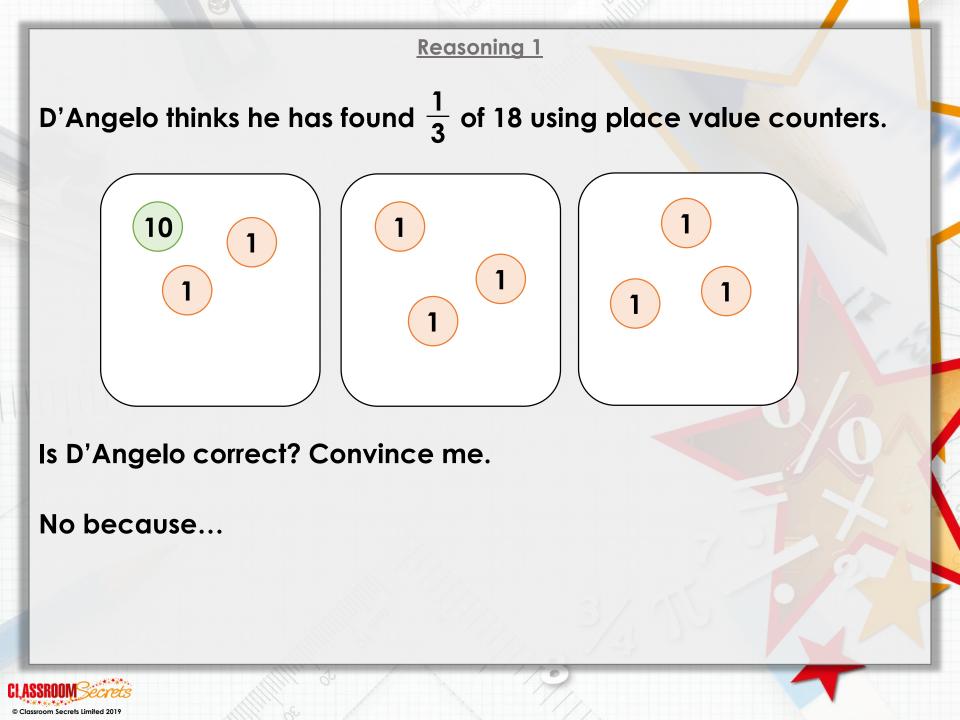
1 of 36 =



Find $\frac{1}{8}$ of 96 using place value counters.

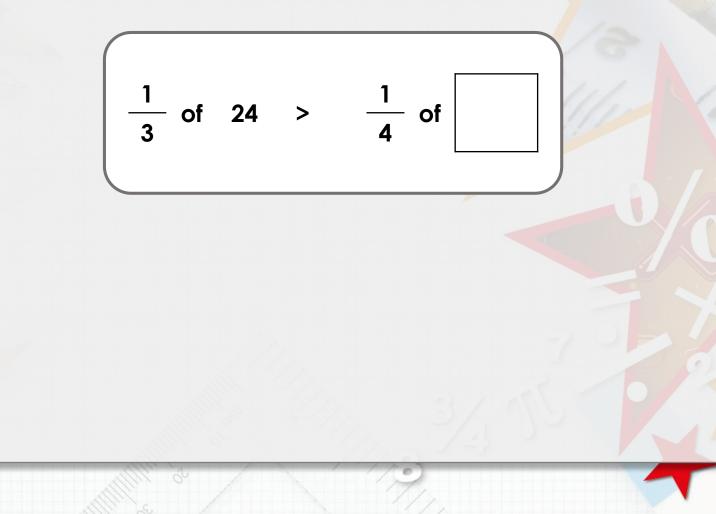




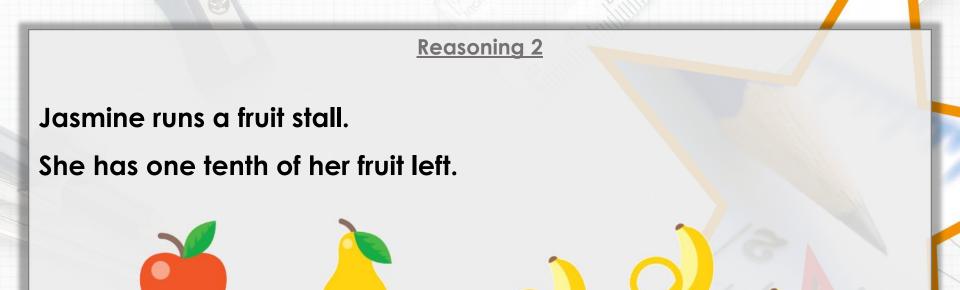


Problem Solving 1

Fill in the missing box to make the statement true.







How much fruit did she start with altogether? Explain your answer.

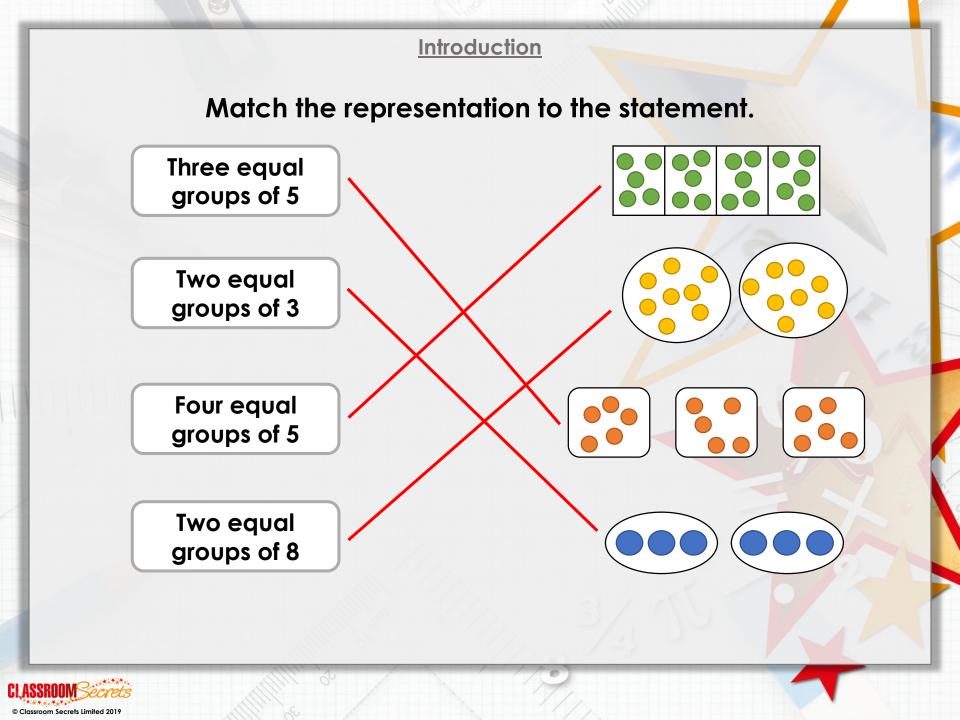




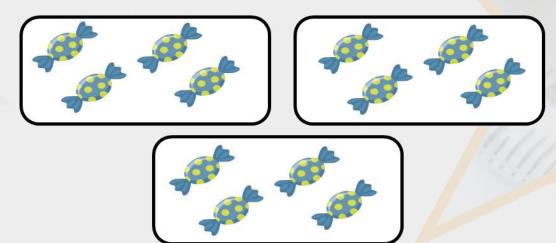
How much fruit did she start with altogether? Explain your answer.

70 pieces of fruit because...





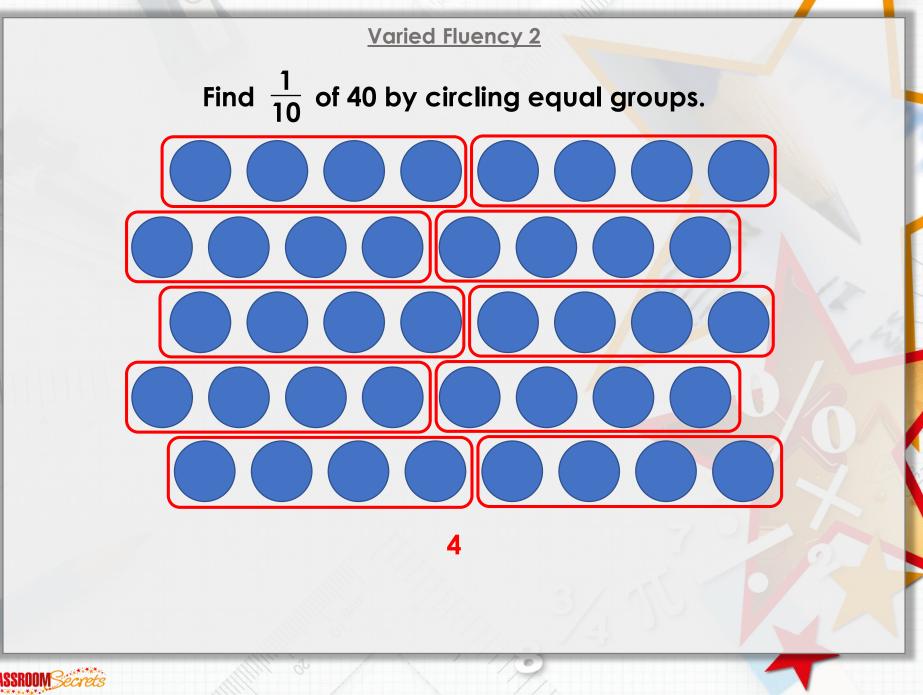
This is $\frac{1}{3}$ of a bag of sweets.



How many sweets were in the bag?

12 sweets

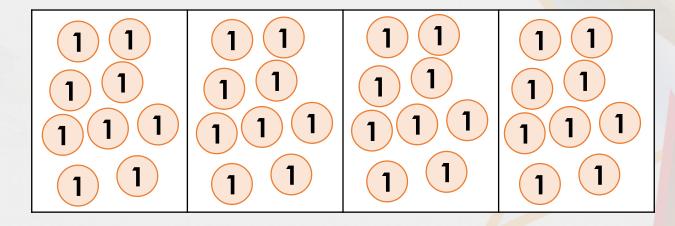




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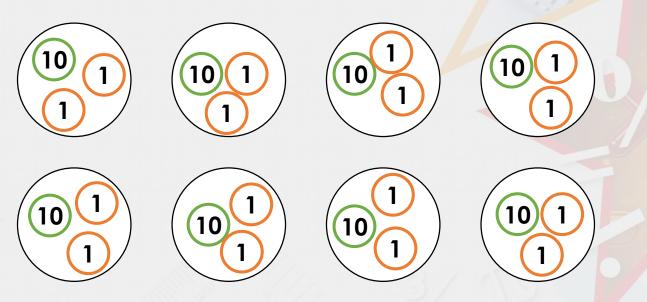
Fill in the gaps to show the calculation this bar model represents.



 $\frac{1}{4}$ of 36 = 9

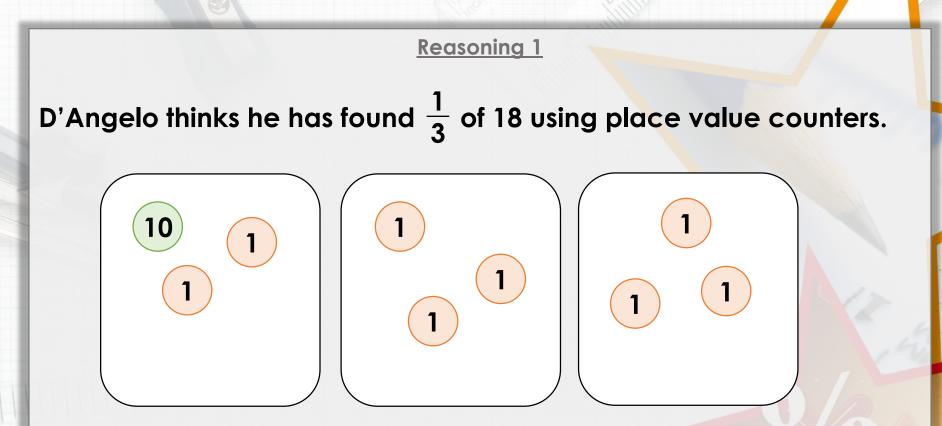
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Find $\frac{1}{8}$ of 96 using place value counters.



12 (you need to exchange one of the tens).





Is D'Angelo correct? Convince me.

No because he has not exchanged the tens counter for 10 ones. He should have 6 ones counters in each group.



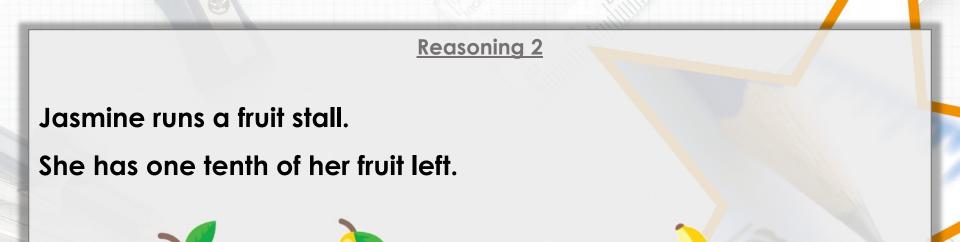
Problem Solving 1

Fill in the missing box to make the statement true.

Possible answer:

$$\frac{1}{3}$$
 of 24 > $\frac{1}{4}$ of $\frac{16}{16}$





How much fruit did she start with altogether? Explain your answer.

70 pieces of fruit because 7 is one tenth of 70.

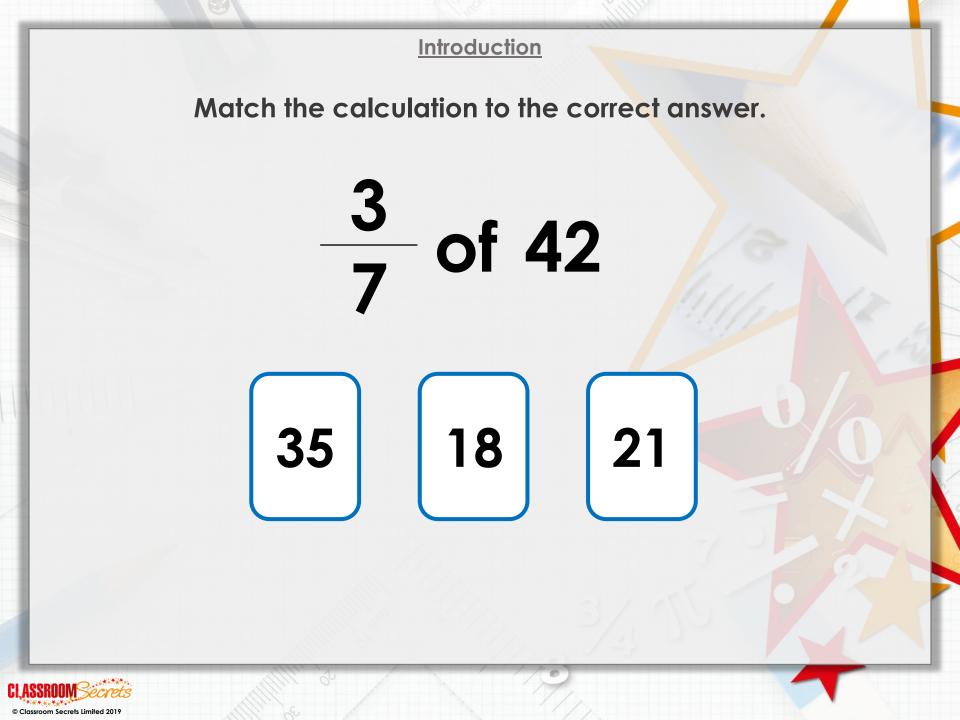


Year 3 – Spring Block 5 – Fractions

Wednesday

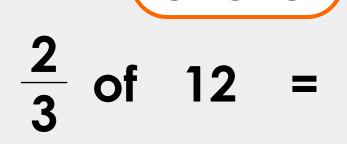
Step 8: Fraction of an Amount 2



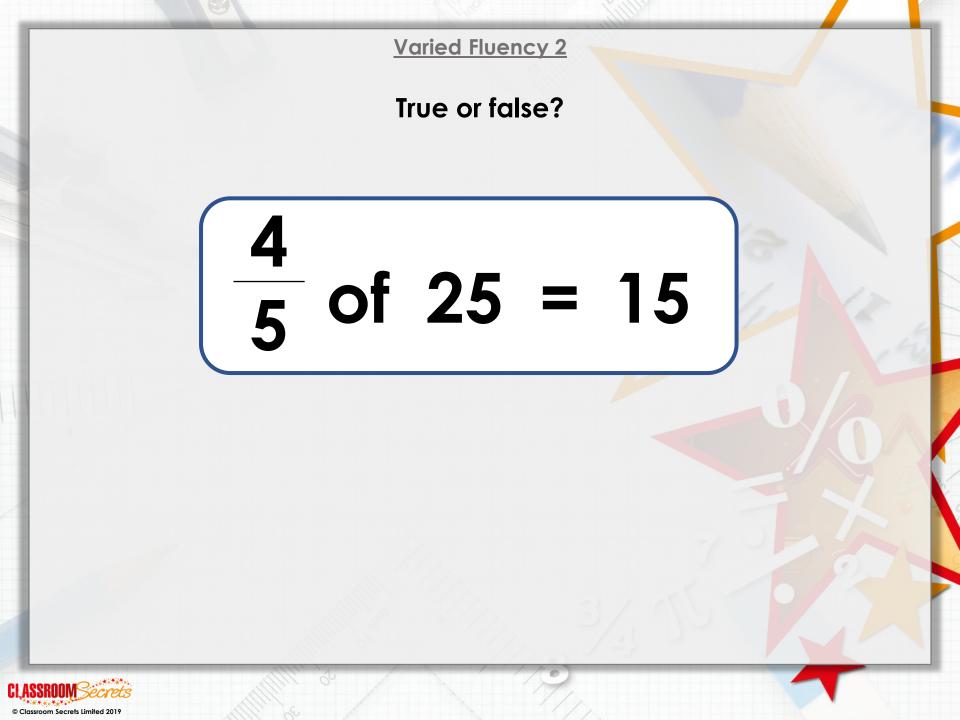


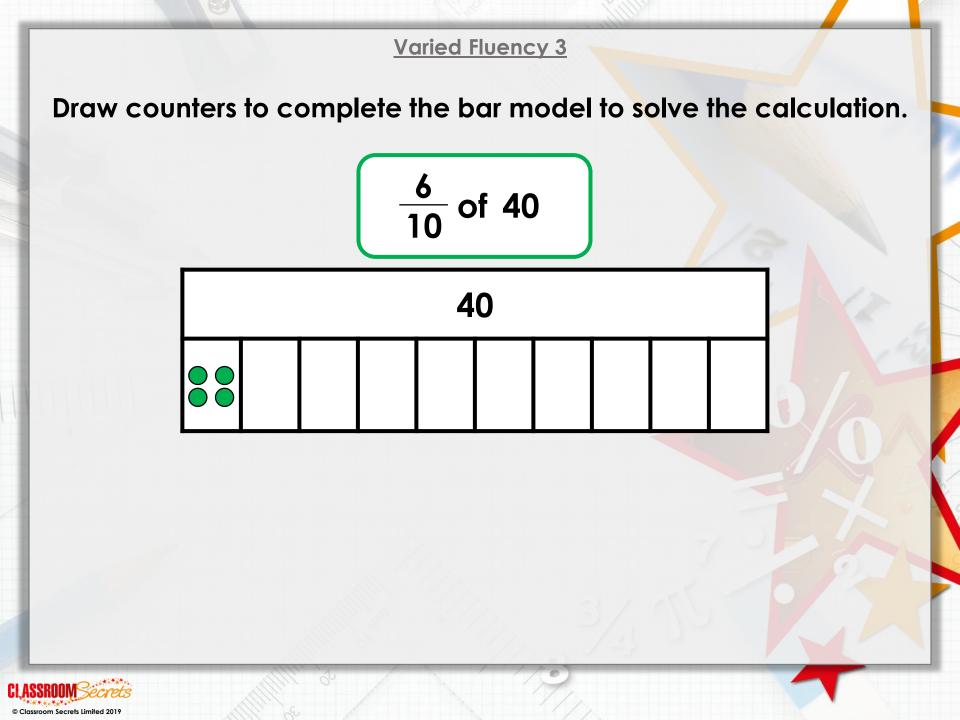


Use the counters to find two thirds of 12.

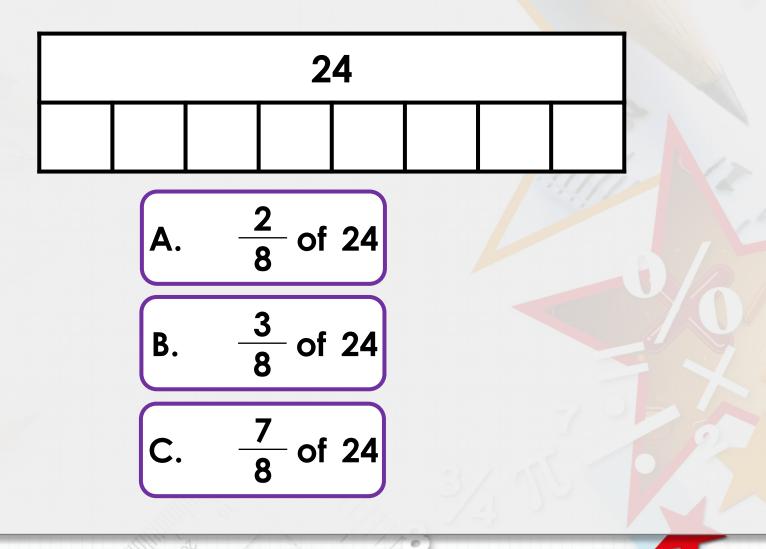






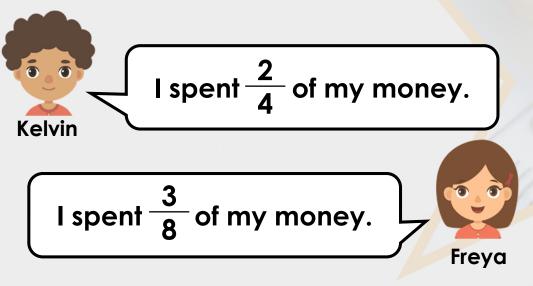


Use the bar model below to calculate the following fractions.





Kelvin and Freya each have £24 to spend.

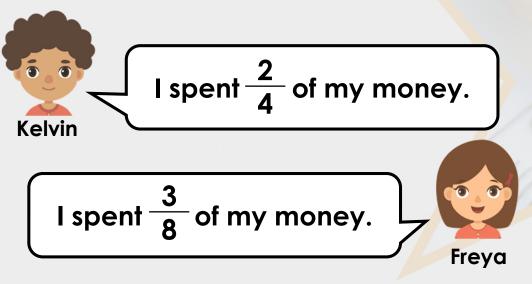


How much money does each child spend?

How much do they have left?



Kelvin and Freya each have £24 to spend.



How much money does each child spend?

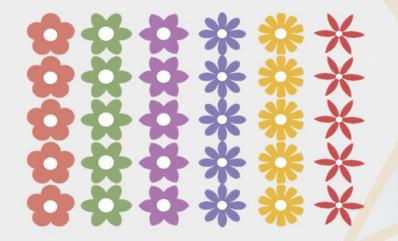
How much do they have left?

Kelvin spends £, he has £ left. Freya spends £, she has £ left.



Problem Solving 1

Sara has 30 flowers.



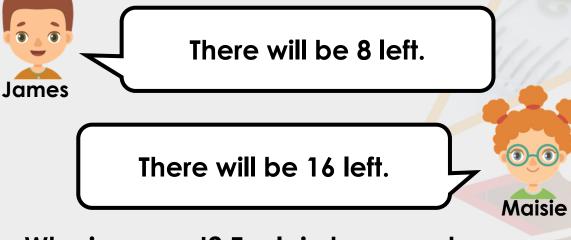
She gives $\frac{3}{10}$ to her mum and $\frac{2}{5}$ to her auntie.

How many does she have left?



James and Maisie are calculating fractions of an amount.

Out of 24 milkshakes, two thirds are sold. How many are left?

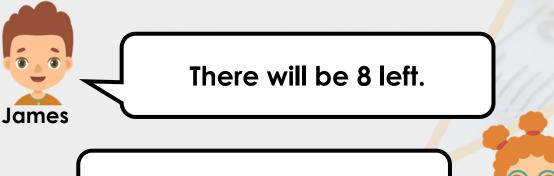


Who is correct? Explain how you know.



James and Maisie are calculating fractions of an amount.

Out of 24 milkshakes, two thirds are sold. How many are left?



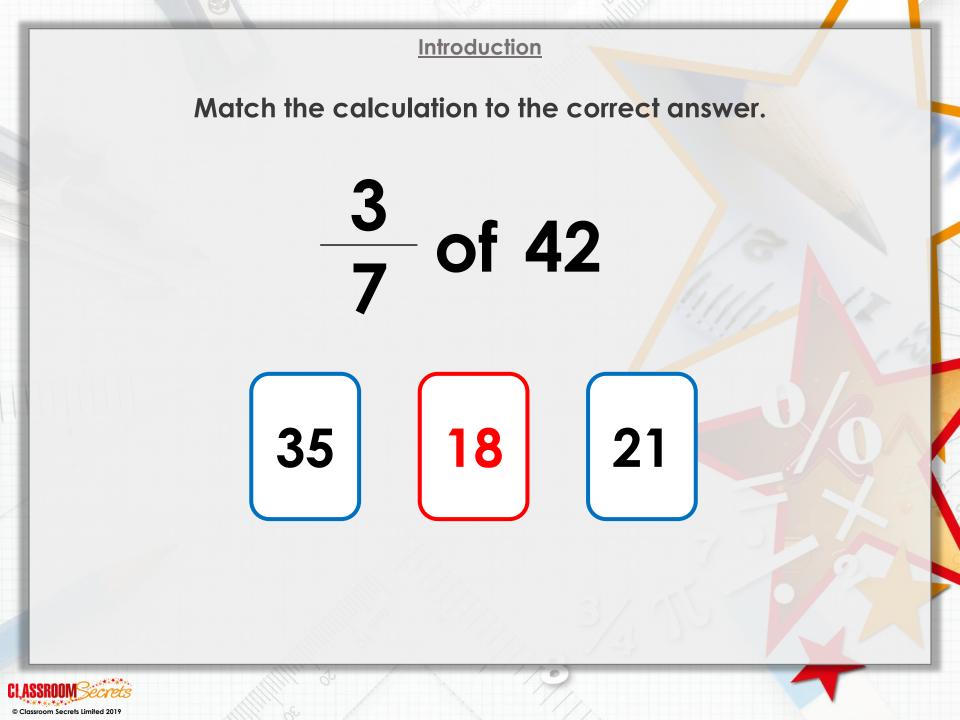
There will be 16 left.

Who is correct? Explain how you know.

Maisie

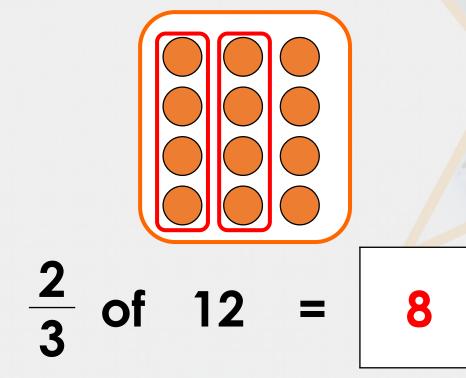
James is correct because...



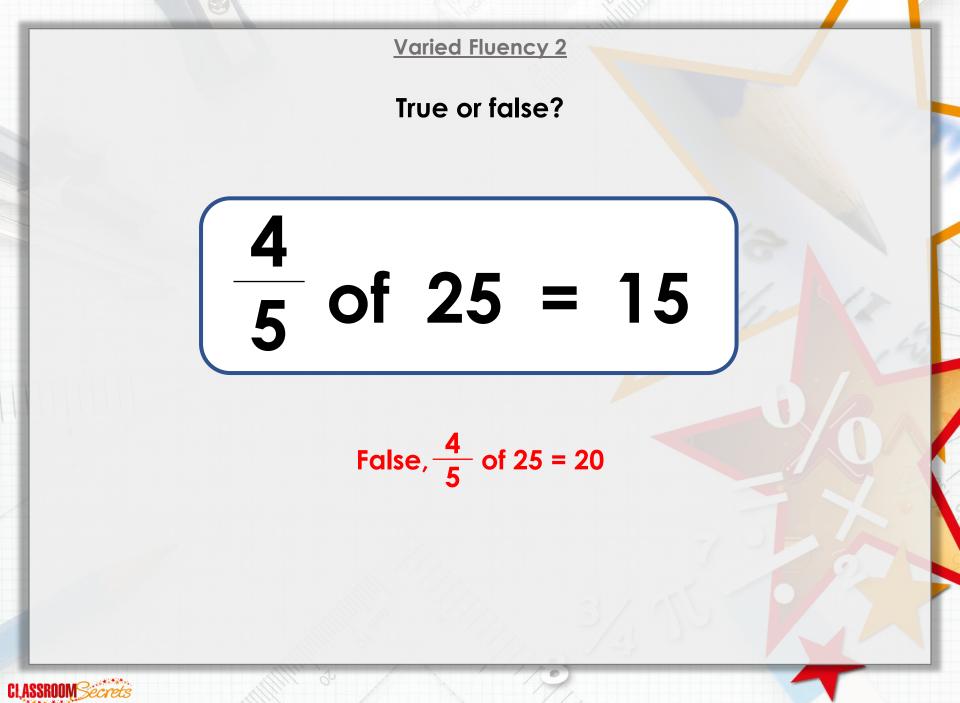




Use the counters to find two thirds of 12.



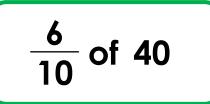


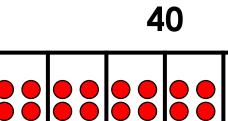


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Draw counters to complete the bar model to solve the calculation.

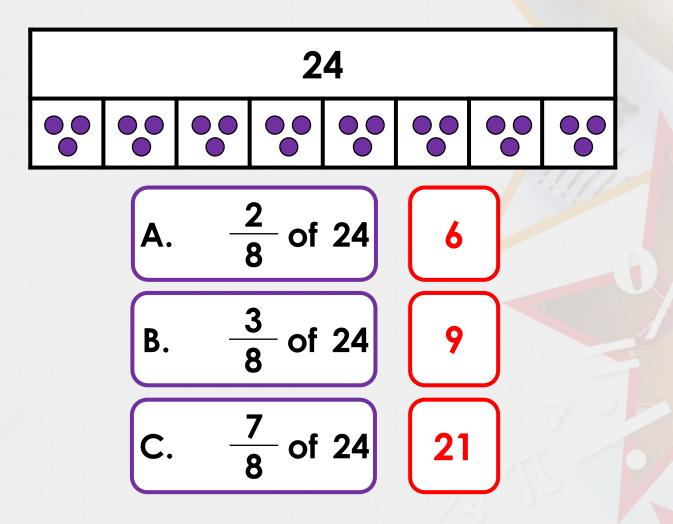




20 more counters should be added to make 24.

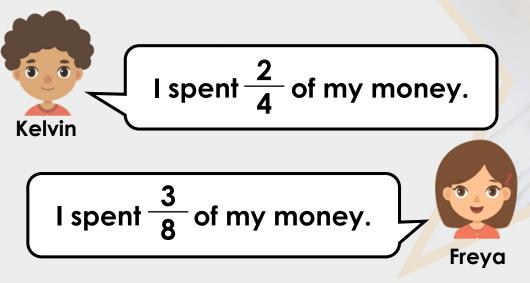


Use the bar model below to calculate the following fractions.





Kelvin and Freya each have £24 to spend.



How much money does each child spend?

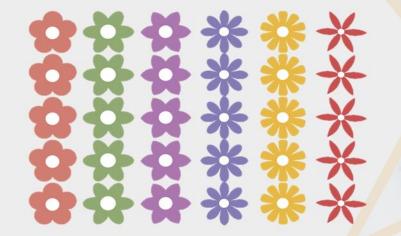
How much do they have left?

Kelvin spends £12, he has £12 left. Freya spends £9, she has £15 left.



Problem Solving 1

Sara has 30 flowers.



She gives
$$\frac{3}{10}$$
 to her mum and $\frac{2}{5}$ to her auntie.
How many does she have left?

 $\frac{3}{10}$ of 30 = 9 $\frac{2}{5}$ of 30 = 12 9 + 12 = 21 30 - 21 = 9





Out of 24 milkshakes, two thirds are sold. How many are left?



There will be 16 left.

Who is correct? Explain how you know.

Maisie

James is correct because $\frac{1}{3}$ of 24 = 8 Maisie has calculated how many were sold. $\frac{2}{3}$ of 24 = 16



Year 3 – Spring Block 5 – Fractions

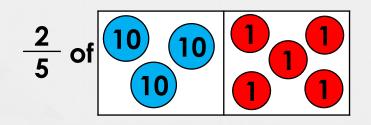
Thursday

Step 9: Fraction of an Amount 3



Introduction

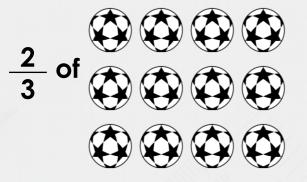
Match the fraction to the answer.

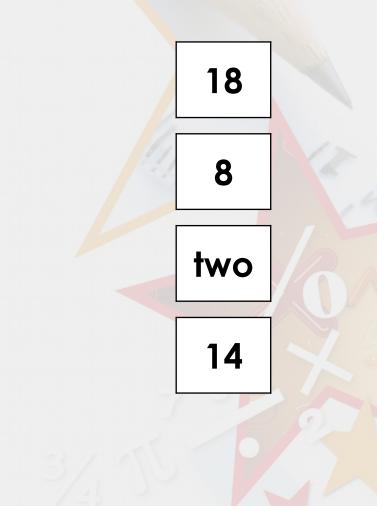


 $\frac{1}{8}$ of sixteen

 $\frac{3}{4}$ of 24

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Complete the sentences. A cooler box holds 60L.



Josh fills one fifth of the box with food.

He fills _____ litres.

There are _____ litres left in his box.

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Tara is completing a 60km journey.

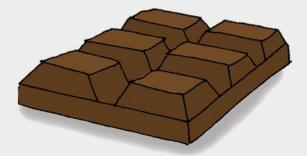


She stops after $\frac{4}{10}$ of her journey.

She has driven 40km. True or false?



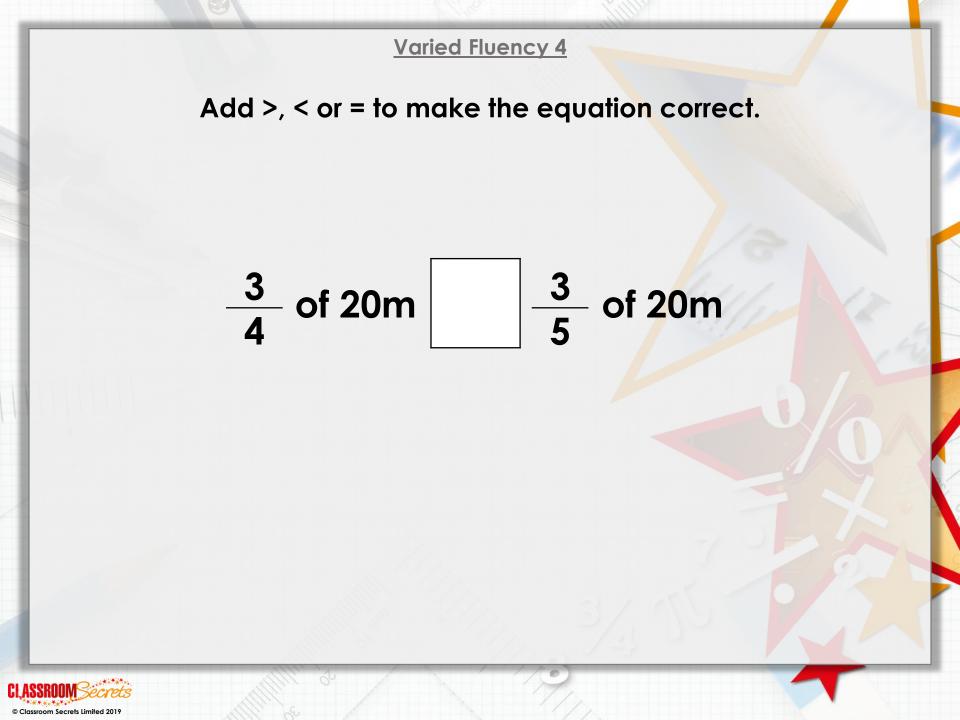
Josh has 32g of chocolate. He shares it between his three friends.



How much chocolate does each friend have? Circle the correct answer.

16g 8g 10g





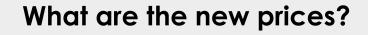


A shop is having a sale and everything is reduced by $\frac{1}{10}$.

90p

40p



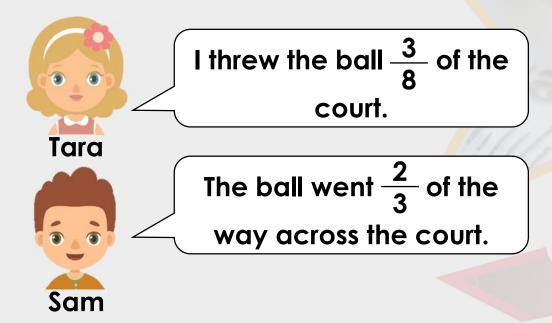


50p

Which items can you buy with 99p?



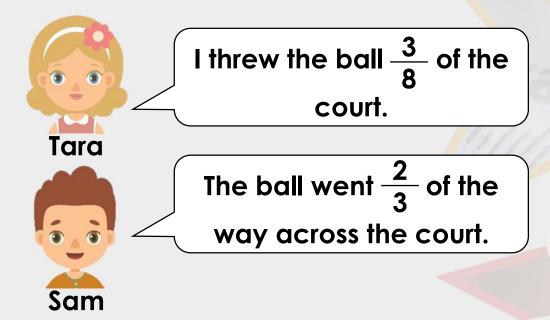
Each child throws a ball on a court 24m long. Tara thinks she threw the ball the farthest.



Is she correct? Explain why.



Each child throws a ball on a court 24m long. Tara thinks she threw the ball the farthest.



Is she correct? Explain why.

Tara is not correct because...



Read the statements below:

A.
$$\frac{3}{8}$$
 of £48 is £18

B.
$$\frac{3}{8}$$
 of £48 is £16

Which is correct? Convince me.



Read the statements below:

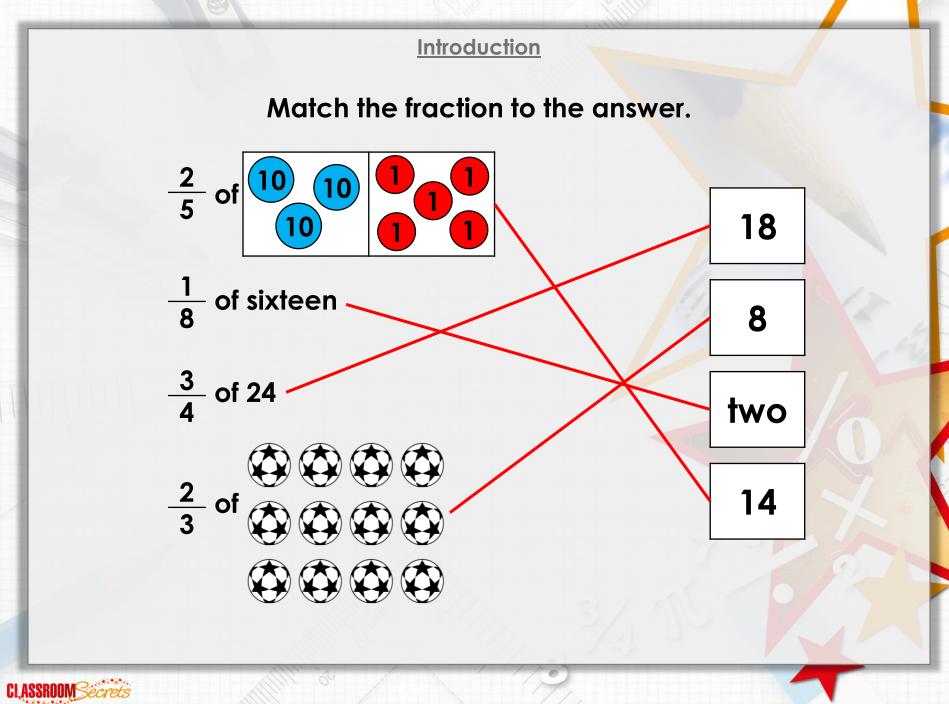
A.
$$\frac{3}{8}$$
 of £48 is £18

B.
$$\frac{3}{8}$$
 of £48 is £16

Which is correct? Convince me.

A is correct because...





Complete the sentences. A cooler box holds 60L.



Josh fills one fifth of the box with food.

He fills <u>12</u> litres.

There are <u>48</u> litres left in his box.



Tara is completing a 60km journey.



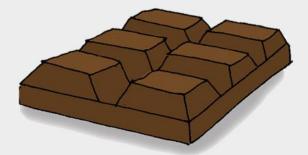
She stops after $\frac{4}{10}$ of her journey.

She has driven 40km. True or false?

False, she has driven 24km.



Josh has 32g of chocolate. He shares it between his three friends.



How much chocolate does each friend have? Circle the correct answer.

8g









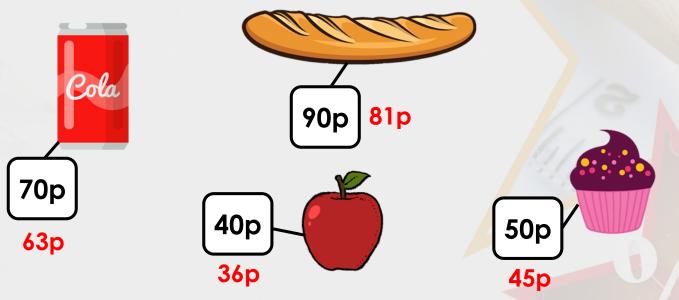
Add >, < or = to make the equation correct.

$$\frac{3}{4}$$
 of 20m > $\frac{3}{5}$ of 20m



Problem Solving 1

A shop is having a sale and everything is reduced by $\frac{1}{10}$.

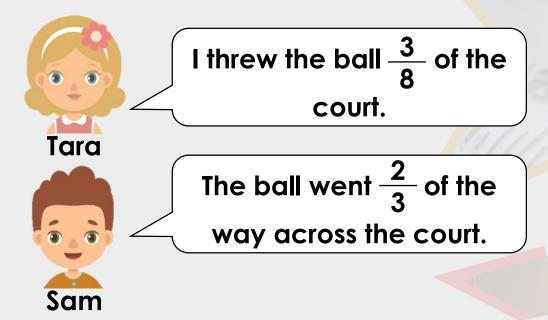


What are the new prices?

Which items can you buy with 99p? You can buy the drink and the apple or the bun and the apple.



Each child throws a ball on a court 24m long. Tara thinks she threw the ball the farthest.



Is she correct? Explain why.

Tara is not correct because she has thrown the ball 9m and Sam has thrown the ball 16m. Sam threw the ball the farthest.



Read the statements below:

A.
$$\frac{3}{8}$$
 of £48 is £18

B.
$$\frac{3}{8}$$
 of £48 is £16

Which is correct? Convince me.

A is correct because $48 \div 8 = 6$ and $6 \times 3 = 18$.

