

Decimal Number Bonds

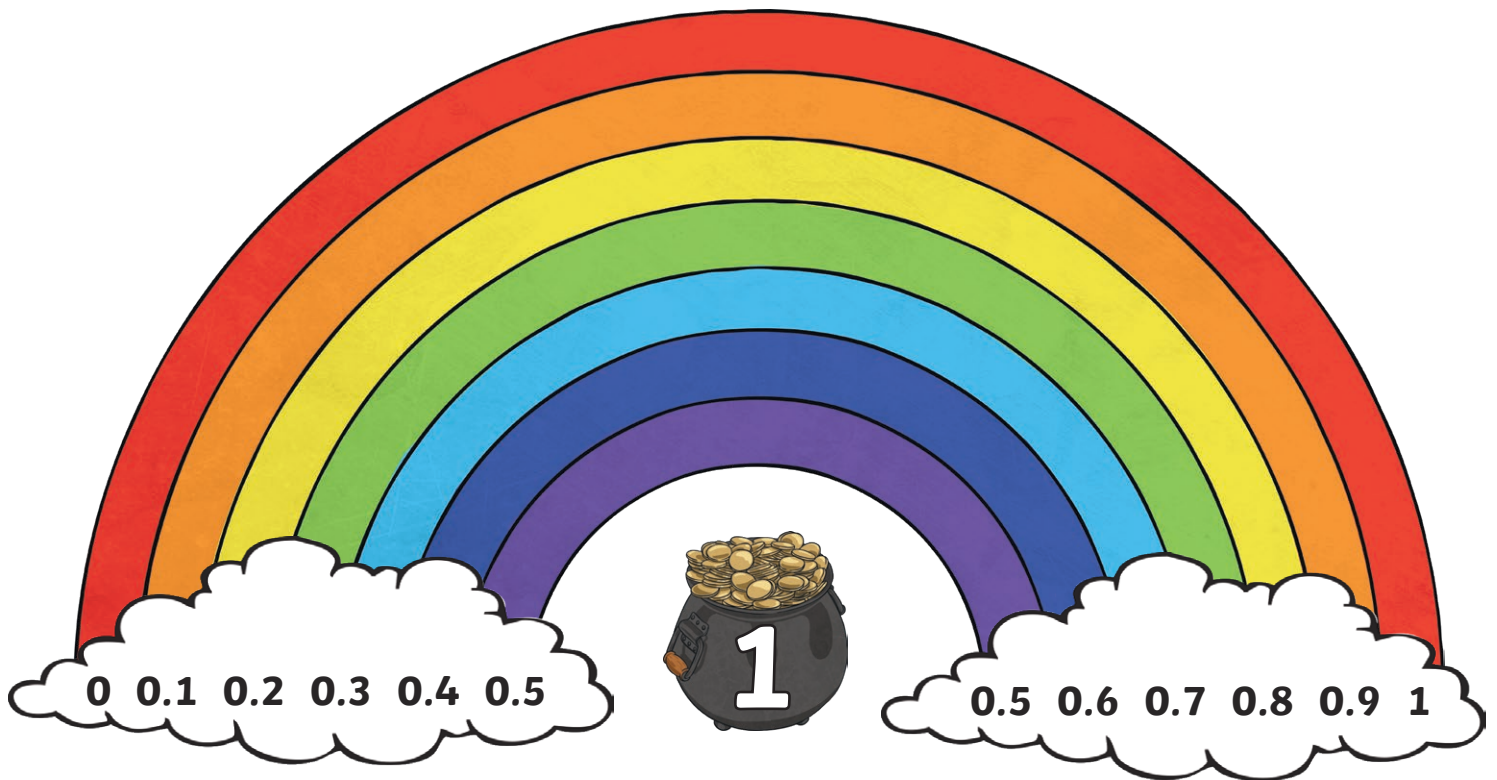
Maths Activity Booklet



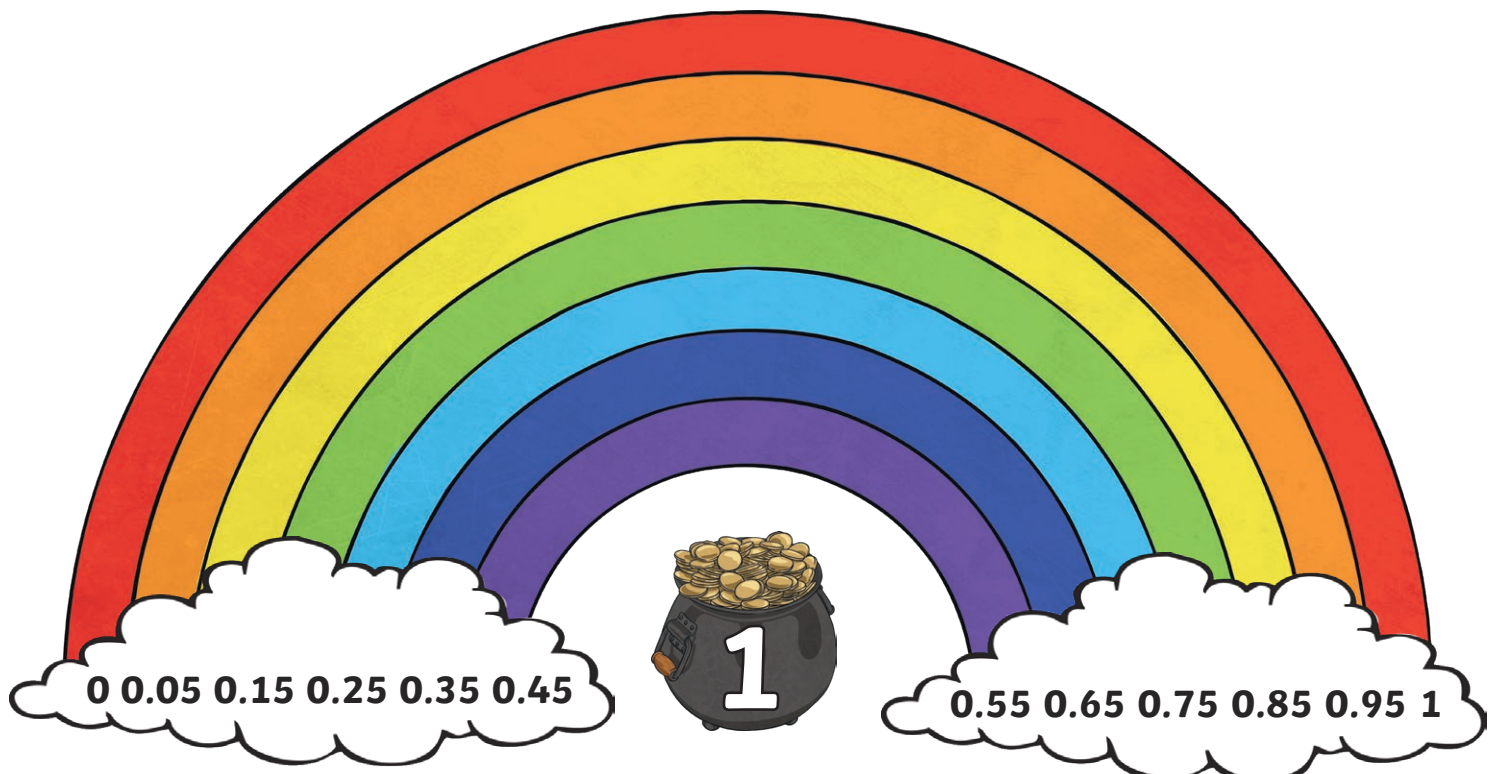
Name: _____

Decimal Number Bonds

Rainbow to 1



Rainbow to 1



Bar Diagrams

Complete the decimal number bonds facts shown by each bar diagram. The first one is done for you.

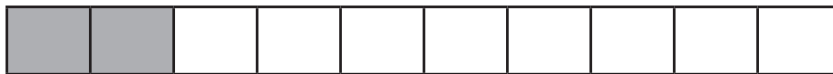


$$0.1 + 0.9 = 1$$

$$0.9 + 0.1 = 1$$

$$1 - 0.1 = 0.9$$

$$1 - 0.9 = 0.1$$



$$\square + \square = 1$$

$$\square + \square = 1$$

$$1 - \square = \square$$

$$1 - \square = \square$$



$$\square + \square = 1$$

$$\square + \square = 1$$

$$1 - \square = \square$$

$$1 - \square = \square$$



$$\square + \square = 1$$

$$\square + \square = 1$$

$$1 - \square = \square$$

$$1 - \square = \square$$

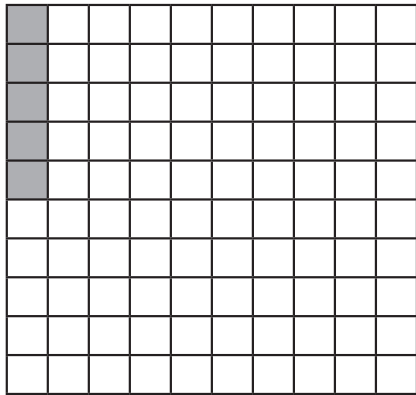


$$\square + \square = 1$$

$$1 - \square = \square$$

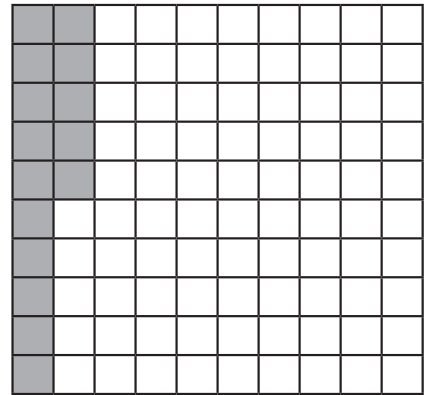
Block Diagrams

Complete the decimal number bonds facts shown by each block diagram. The first one is done for you.



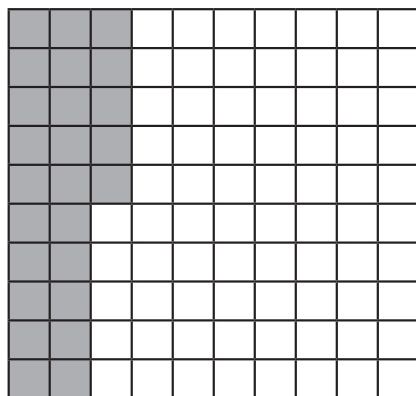
$$0.05 + 0.95 = 1 \quad 0.95 + 0.05 = 1$$

$$1 - 0.05 = 0.95 \quad 1 - 0.95 = 0.05$$



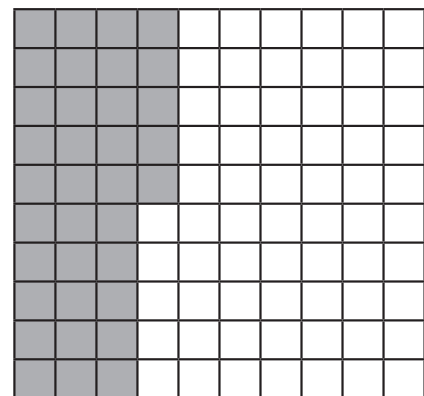
$$\boxed{} + \boxed{} = 1 \quad \boxed{} + \boxed{} = 1$$

$$1 - \boxed{} = \boxed{} \quad 1 - \boxed{} = \boxed{}$$



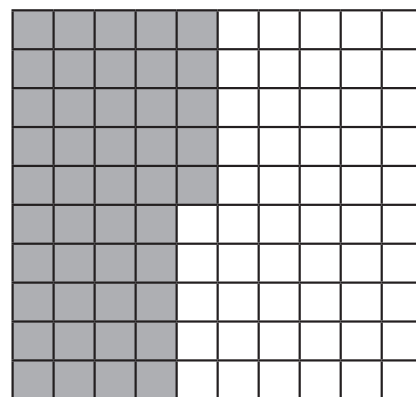
$$\boxed{} + \boxed{} = 1 \quad \boxed{} + \boxed{} = 1$$

$$1 - \boxed{} = \boxed{} \quad 1 - \boxed{} = \boxed{}$$



$$\boxed{} + \boxed{} = 1 \quad \boxed{} + \boxed{} = 1$$

$$1 - \boxed{} = \boxed{} \quad 1 - \boxed{} = \boxed{}$$



$$\boxed{} + \boxed{} = 1 \quad \boxed{} + \boxed{} = 1$$

$$1 - \boxed{} = \boxed{} \quad 1 - \boxed{} = \boxed{}$$

Seeing Stars

Write the missing number to make each star equal to 1.

$0.1 + \underline{\quad} = 1$

$0.35 + \underline{\quad} = 1$

$0.55 + \underline{\quad} = 1$

$0.2 + \underline{\quad} = 1$

$0.25 + \underline{\quad} = 1$

$0.45 + \underline{\quad} = 1$

$0.4 + \underline{\quad} = 1$

$0.3 + \underline{\quad} = 1$

$0.15 + \underline{\quad} = 1$

$0.5 + \underline{\quad} = 1$

1

Superhero Missing Numbers

Can you find the missing numbers?



$$0.15 + \text{[starburst]} = 1$$

$$1 - \text{[starburst]} = 0.6$$

$$0.5 + \text{[starburst]} = 1$$

$$1 - \text{[starburst]} = 0.45$$

$$1 = \text{[starburst]} + 0.2$$

$$1 - \text{[starburst]} = 0.35$$

$$1 = \text{[starburst]} + 0.25$$

$$1 - \text{[starburst]} = 0.25$$



Bar Model Word Problems

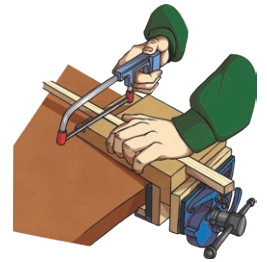
1. A comic book costs £0.45 and I pay with a £1 coin. How much change do I get?

£1	
£0.45	?



2. A length of wood measures 1m. I saw a 0.3m piece off. What is the length of the piece of wood now?

1m	
0.3m	?



3. The distance of my bike ride is 1km and I have travelled 0.65km so far. How much further do I have left to cycle?

1km	
0.65km	?



4. A recipe for a huge chocolate pudding uses 1kg of chocolate. I add white chocolate first, then I add 0.8kg of dark chocolate. How much white chocolate did I use?

1kg	
?	0.8kg



5. Two parcels weigh 1kg in total. One parcel weighs 0.75kg. What is the mass of the other parcel?

1kg	
0.75kg	?



6. A recipe for a fruit smoothie uses 1 litre of juice. I add my apple juice first, then I add 0.4 litres of pineapple juice. How much apple juice did I use?

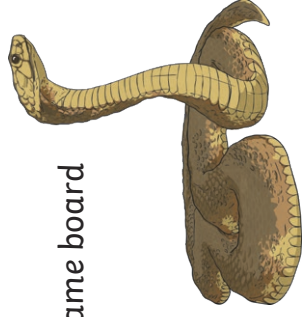
1 litre	
?	0.4 litres



Snakes and Ladders

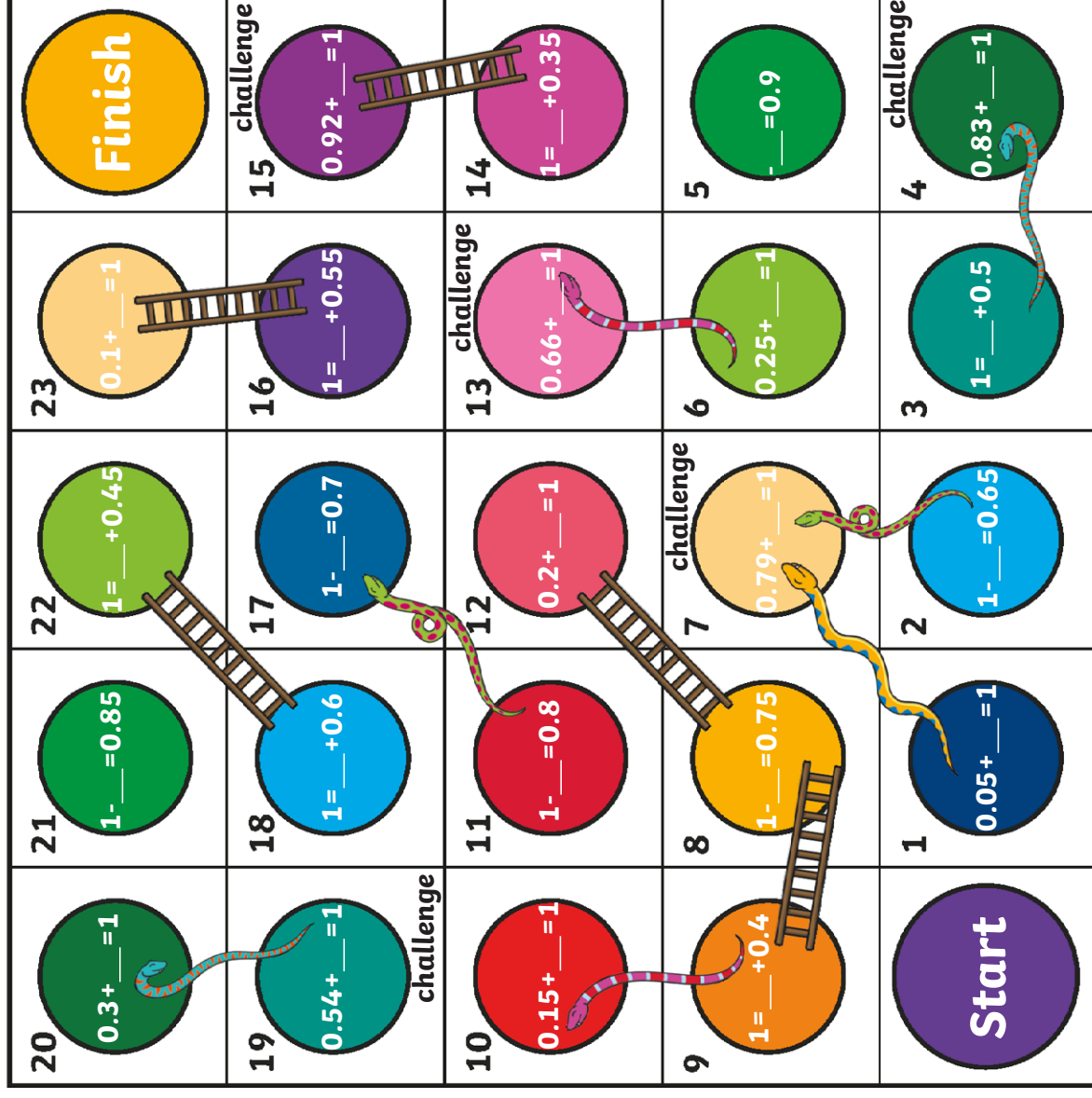
You will need...

- The Snakes and Ladders Board Game board
- A dice
- A counter per player



How to play...

1. Players take it in turns to roll the dice. The player with the highest number goes first, the player with the second highest goes second and so on.
2. When it's their turn, players move the counter the number of spaces shown on the dice and answer the calculation they land on.
3. If the answer given to the calculation is correct, play continues as usual:
 - landing on a snake's head - the player's counter slides down;
 - landing at the bottom of a ladder - the player's counter climbs up.
4. If the answer given to the calculation is incorrect, the player misses a go.
5. The first player to reach the finish is the winner!



Speed Challenge

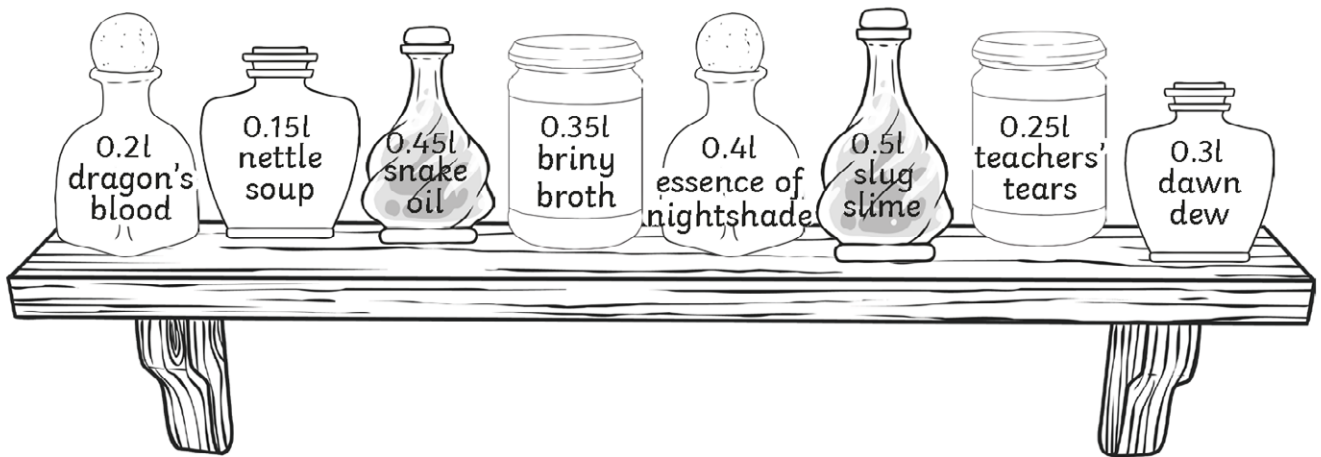
See how long it takes you to complete all of these or give yourself a set amount of time (say 5 minutes) and see how many you can do.

$0.05 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.25$	$1 - \underline{\quad} = 0.65$	$0.25 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.1$
$1 - \underline{\quad} = 0.55$	$0.35 + \underline{\quad} = 1$	$0.95 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.4$	$0.5 + \underline{\quad} = 1$
$0.55 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.9$	$0.1 + \underline{\quad} = 1$	$0.7 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.95$
$0.8 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.2$	$0.9 + \underline{\quad} = 1$	$0.45 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.05$
$0.3 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.15$	$0.85 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.45$	$1 - \underline{\quad} = 0.3$
$1 - \underline{\quad} = 0.35$	$0.6 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.8$	$0.75 + \underline{\quad} = 1$	$0.4 + \underline{\quad} = 1$
$1 - \underline{\quad} = 0.6$	$0.2 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.7$	$0.15 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.85$
$1 - \underline{\quad} = 0.5$	$0.65 + \underline{\quad} = 1$	$1 - \underline{\quad} = 0.75$	$1 - \underline{\quad} = 0.25$	$1 - \underline{\quad} = 0.3$

Correct answer:

Time:

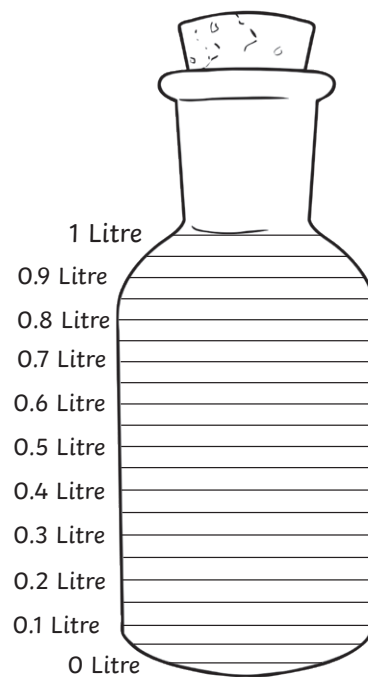
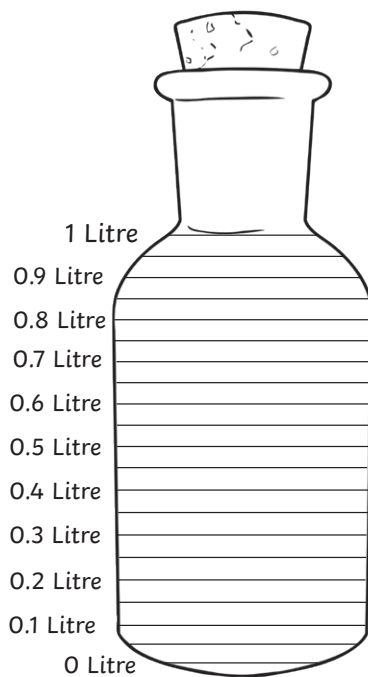
Potion Investigation



Apprentice Alf is mixing potions that make 1 litre exactly. He uses three ingredients for each potion.

There are six possible potions he can make.

Using the ingredient bottles on the shelf, find the six possible potions he can mix. Use a different colour to show each ingredient in the potion and label the ingredients.



Ingredient 1: _____

Ingredient 2: _____

Ingredient 3: _____

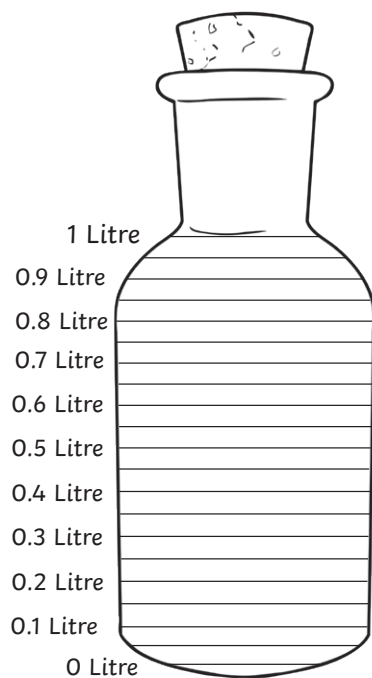
_____ + _____ + _____ = 1

Ingredient 1: _____

Ingredient 2: _____

Ingredient 3: _____

_____ + _____ + _____ = 1

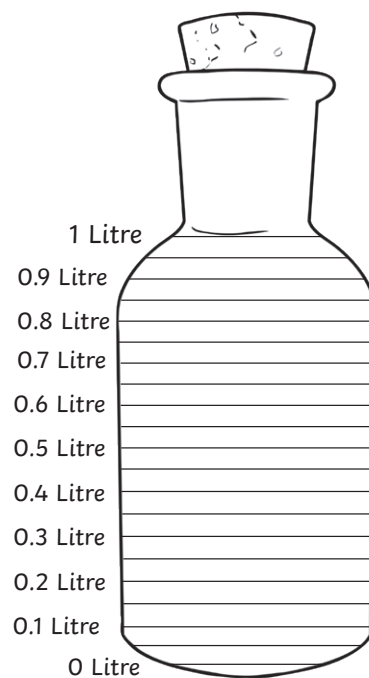


Ingredient 1: _____

Ingredient 2: _____

Ingredient 3: _____

_____ + _____ + _____ = 1

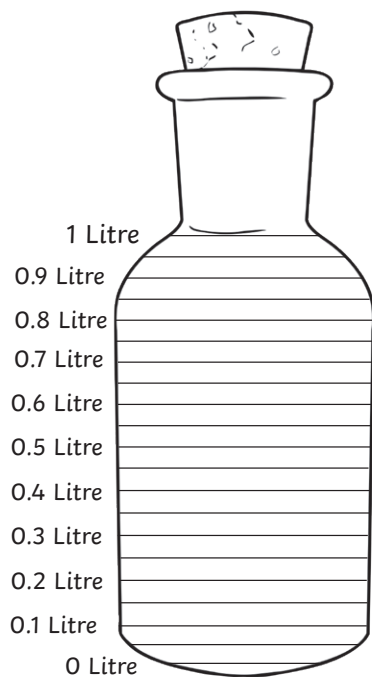


Ingredient 1: _____

Ingredient 2: _____

Ingredient 3: _____

_____ + _____ + _____ = 1

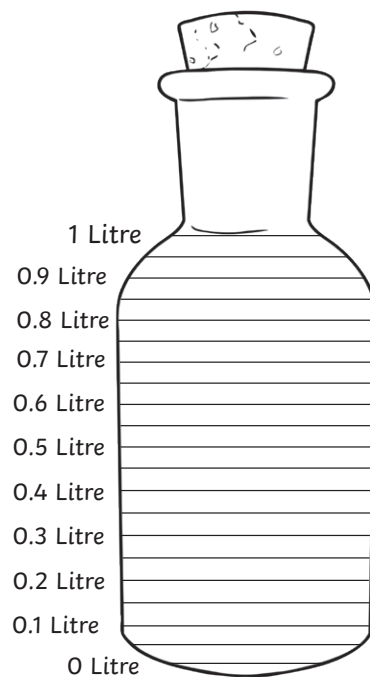


Ingredient 1: _____

Ingredient 2: _____

Ingredient 3: _____

_____ + _____ + _____ = 1



Ingredient 1: _____

Ingredient 2: _____

Ingredient 3: _____

_____ + _____ + _____ = 1