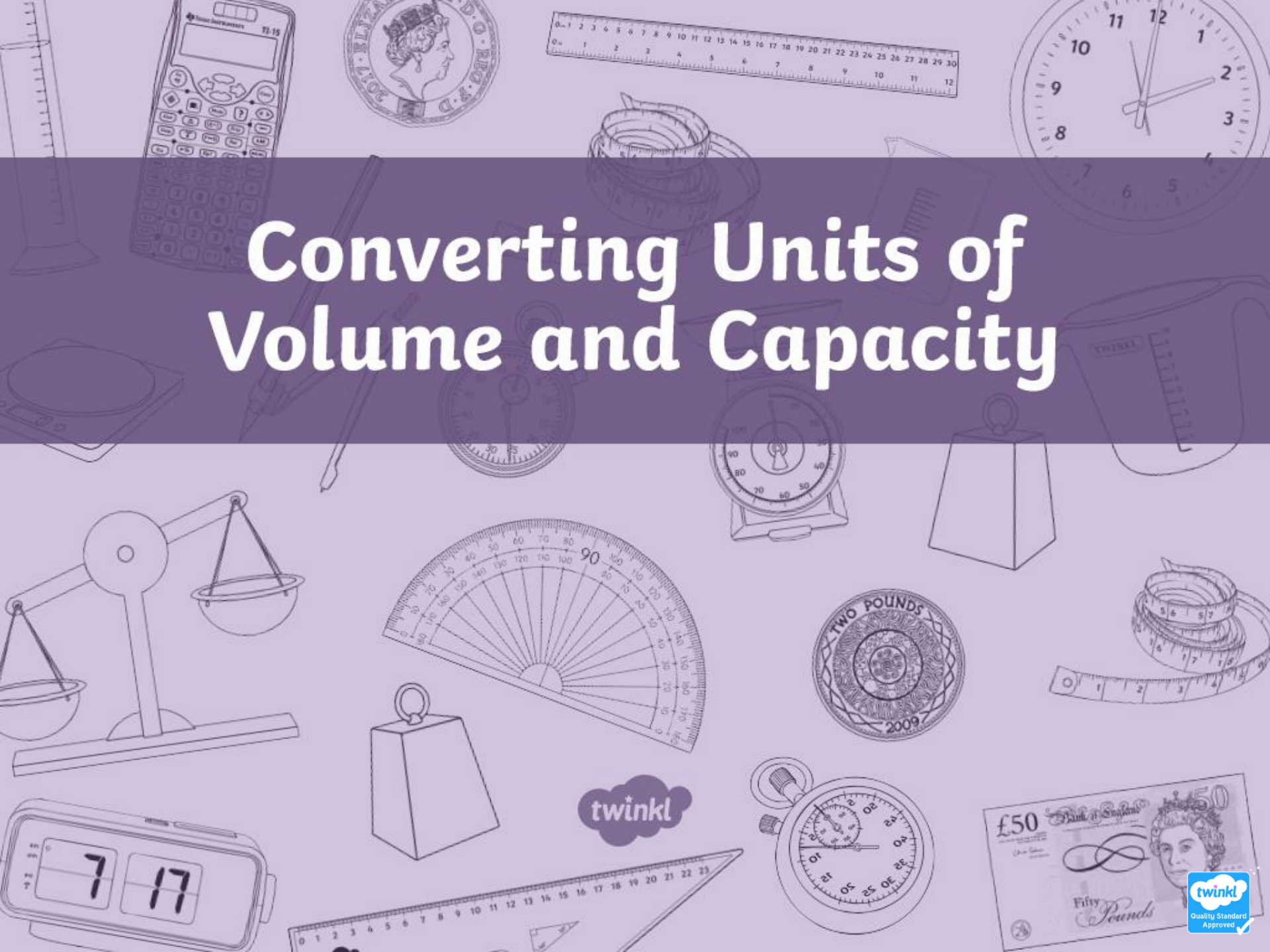


# Converting Units of Volume and Capacity



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# Aim

- I can convert between units of volume and capacity.

## Success Criteria

- I can convert from litres to millilitres by multiplying by 1000.
- I can convert from millilitres to litres by dividing by 1000.
- I can use the inverse operation to convert from millilitres to mixed units and vice versa.



# Converting Litres to Millilitres

A litre is equivalent to 1000ml.

1	2	3	4	5	6	7	8	9	10
litre	litres	litres	litres	litres	litres	litres	litres	litres	litres
1000ml	2000ml	3000ml	4000ml	5000ml	6000ml	7000ml	8000ml	9000ml	10 000ml



# Converting Litres to Millilitres

How many millilitres in...?



?

What calculation do we need to do to convert from litres to millilitres?

Millilitres are smaller than litres, so there are more of them in the same volume. To multiply the number of litres by 1000 to find the number of millilitres in the same volume as litres.



# Converting Litres to Millilitres

Sometimes, measurements are written in mixed units, e.g. 5l 500ml.  
What would we need to do to answer the following questions?

We need to convert the litres to millilitres by multiplying by 1000. We then need to add the extra millilitres on to find the total.

?

How many millilitres in 1l 500ml?

$$1\text{l} = 1000\text{ml}$$

$$1000\text{ml} + 500\text{ml} = 1500\text{ml}$$

?

How many millilitres in 2l 250ml?

$$2\text{l} = 2000\text{ml}$$

$$2000\text{ml} + 250\text{ml} = 2250\text{ml}$$

?

How many millilitres in 4l 750ml?

$$4\text{l} = 4000\text{ml}$$

$$4000\text{ml} + 750\text{ml} = 4750\text{ml}$$

# Converting Litres to Millilitres

How many millilitres in...?



# Converting Millilitres to Litres



To convert from litres to millilitres, we multiply by 1000. What do you think we need to do to convert from millilitres to litres?

We need to divide the number of millilitres by 1000.

$$8000\text{ml} \div 1000 = 8\text{l}$$

If this creates a decimal number, the thousandths can be written as millilitres:

$$6500\text{ml} \div 1000 = 6.500 = 6\text{l } 500\text{ml}$$



# Converting Millilitres to Litres



How many litres in...?



# Ordering Measurements



Here are 3 measurements:

5000ml

4l 250ml

3500ml

4250ml

First, change the measurements into the same unit.

Now, order the measurements.

3500ml

4l 250ml

5000ml

**Key Fact**  
1 litre = 1000ml

# Ordering Measurements



Order these measurements:

2250ml

1l 500ml

2l 750ml

2l 250ml

1l 500ml

2250ml

2l 750ml

**Key Fact**  
1 litre = 1000ml

# Ordering Measurements



Order these measurements:

4l 250ml

7750ml

5500ml

6l 250ml

4250ml

6250ml

4l 250ml

5500ml

6l 250ml

7750ml

**Key Fact**  
1 litre = 1000ml

# Ordering Measurements



Order these measurements:

2l 200ml

2500ml

2005ml

2l 250ml

2200ml

2250ml

2005ml

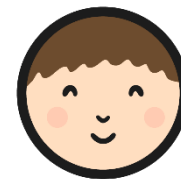
2l 200ml

2l 250ml

2500ml

**Key Fact**  
1 litre = 1000ml

# Converting Volume and Capacity Units



Use your captivating conversion skills to complete this activity sheet.

**Converting Volume and Capacity Units**

I can convert between units of volume and capacity.

1. Fill in the table, converting the litre measurements into millilitres:

Litres	Millilitres
5 litres	ml
8 litres	ml
3 litres	ml
4 litres	ml
6 litres	ml
7 litres	ml
2 litres	ml
9 litres	ml

2. To convert litres and millilitres into millilitres, first calculate how many millilitres are in the litre measurement, then add on the millilitre measurement.  
e.g.  $5\text{ l } 250\text{ ml} = 5000\text{ ml} + 250\text{ ml} = 5250\text{ ml}$   
Convert the following:

3 l 500 ml	ml
4 l 250 ml	ml
6 l 750 ml	ml
2 l 250 ml	ml
7 l 500 ml	ml
3 l 750 ml	ml
4 l 750 ml	ml
9 l 250 ml	ml

**Converting Volume and Capacity Units**

... to litres, divide by 1000. If this creates a decimal number, the ... written as millilitres.

10 ml

Litres/Litres and Millilitres	

... measurements from smallest to largest. When they are in different ... that they are all the same:

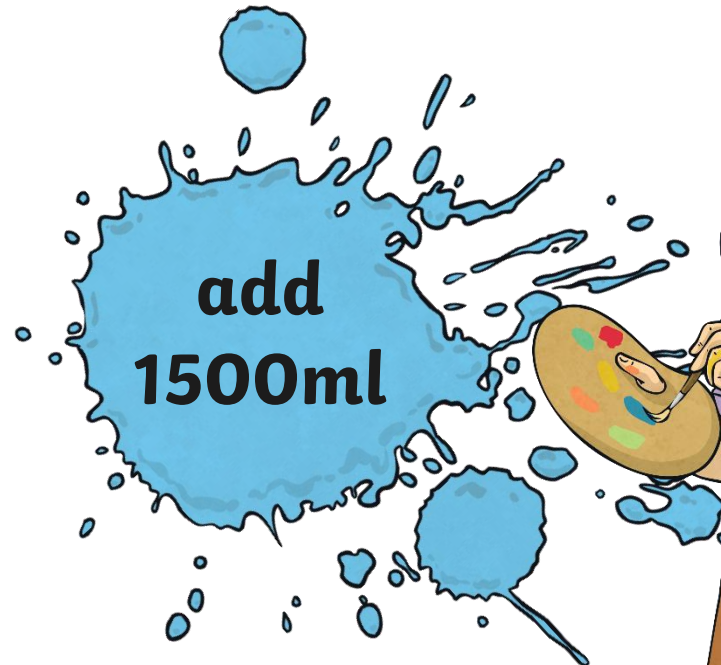
3750 ml	4250 ml
4250 ml	4 l 500 ml
2500 ml	1250 ml
3750 ml	2 l 750 ml

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# How Much More?



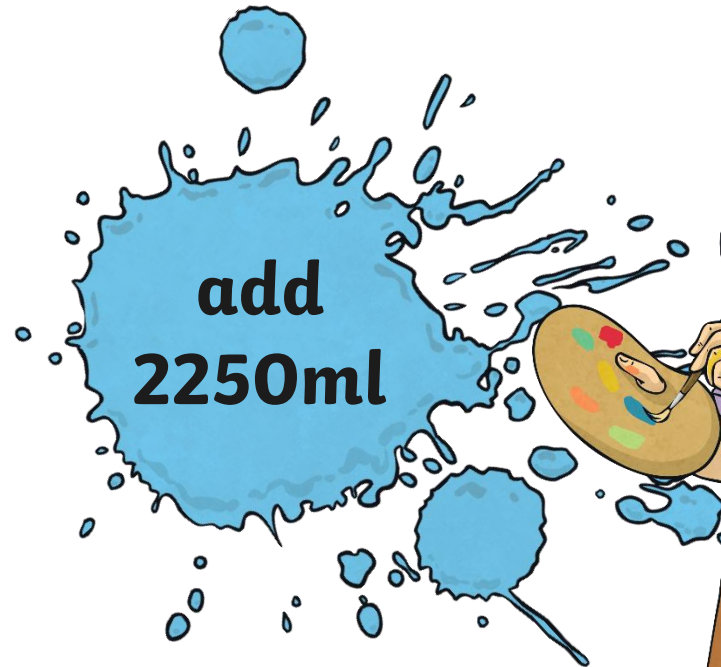
How much more do you need to add to the amount shown to make 5 litres? Write your answer in millilitres.



# How Much More?



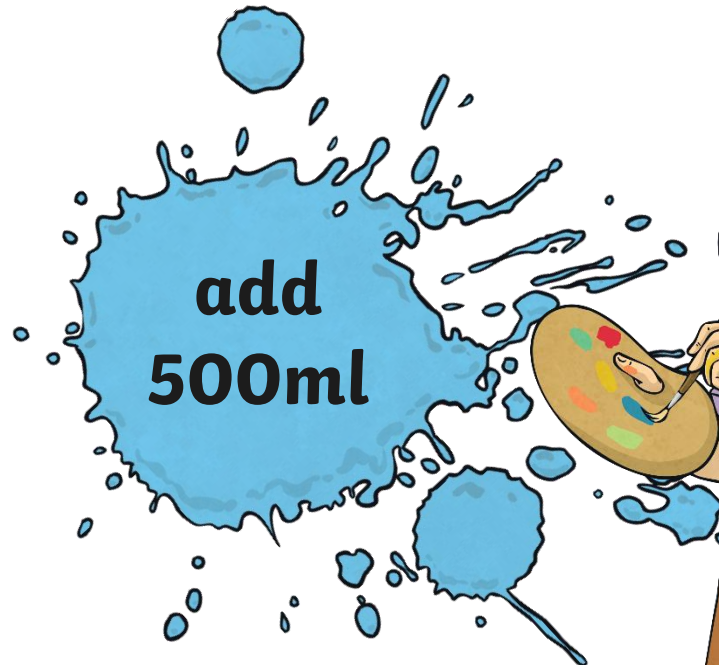
How much more do you need to add to the amount shown to make 5 litres? Write your answer in millilitres.



# How Much More?



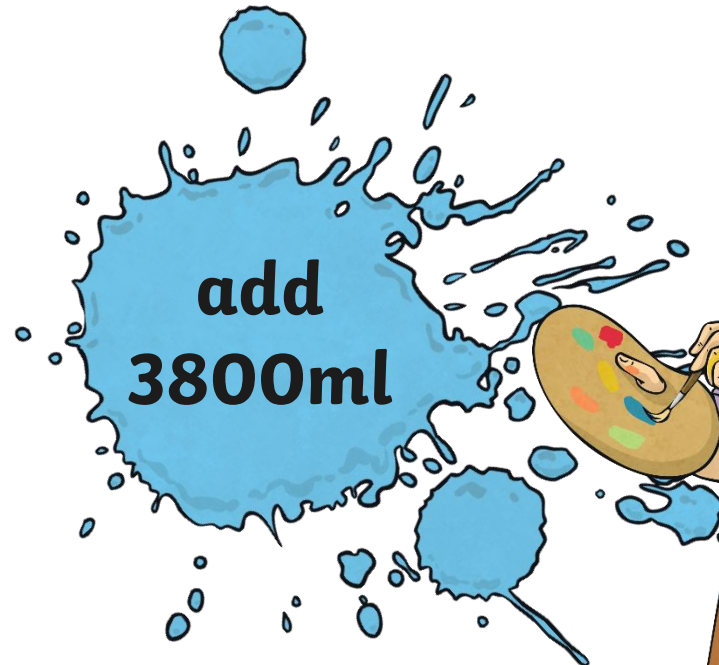
How much more do you need to add to the amount shown to make 5 litres? Write your answer in millilitres.



# How Much More?



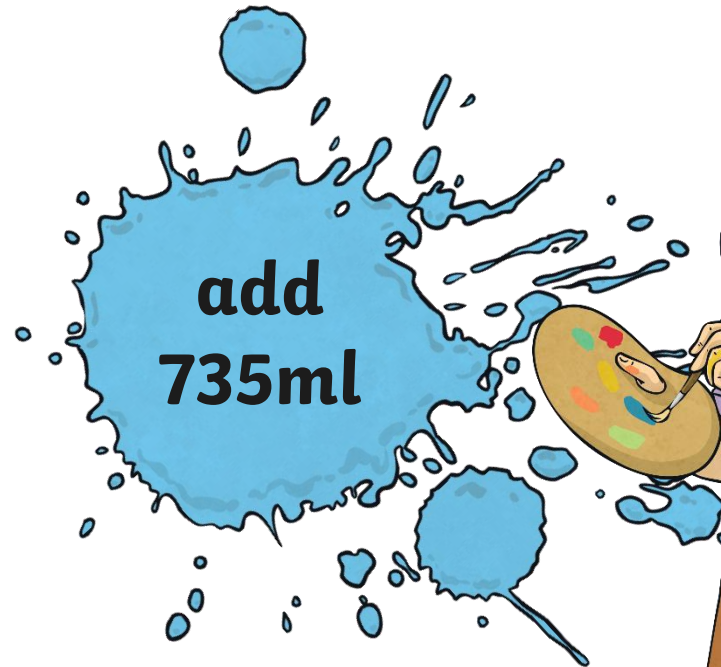
How much more do you need to add to the amount shown to make 5 litres? Write your answer in millilitres.



# How Much More?



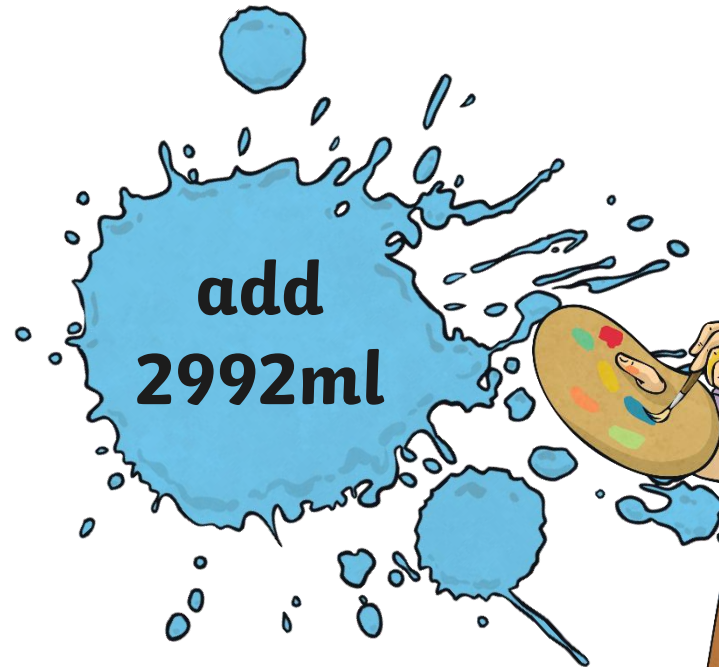
How much more do you need to add to the amount shown to make 5 litres? Write your answer in millilitres.



# How Much More?



How much more do you need to add to the amount shown to make 5 litres? Write your answer in millilitres.



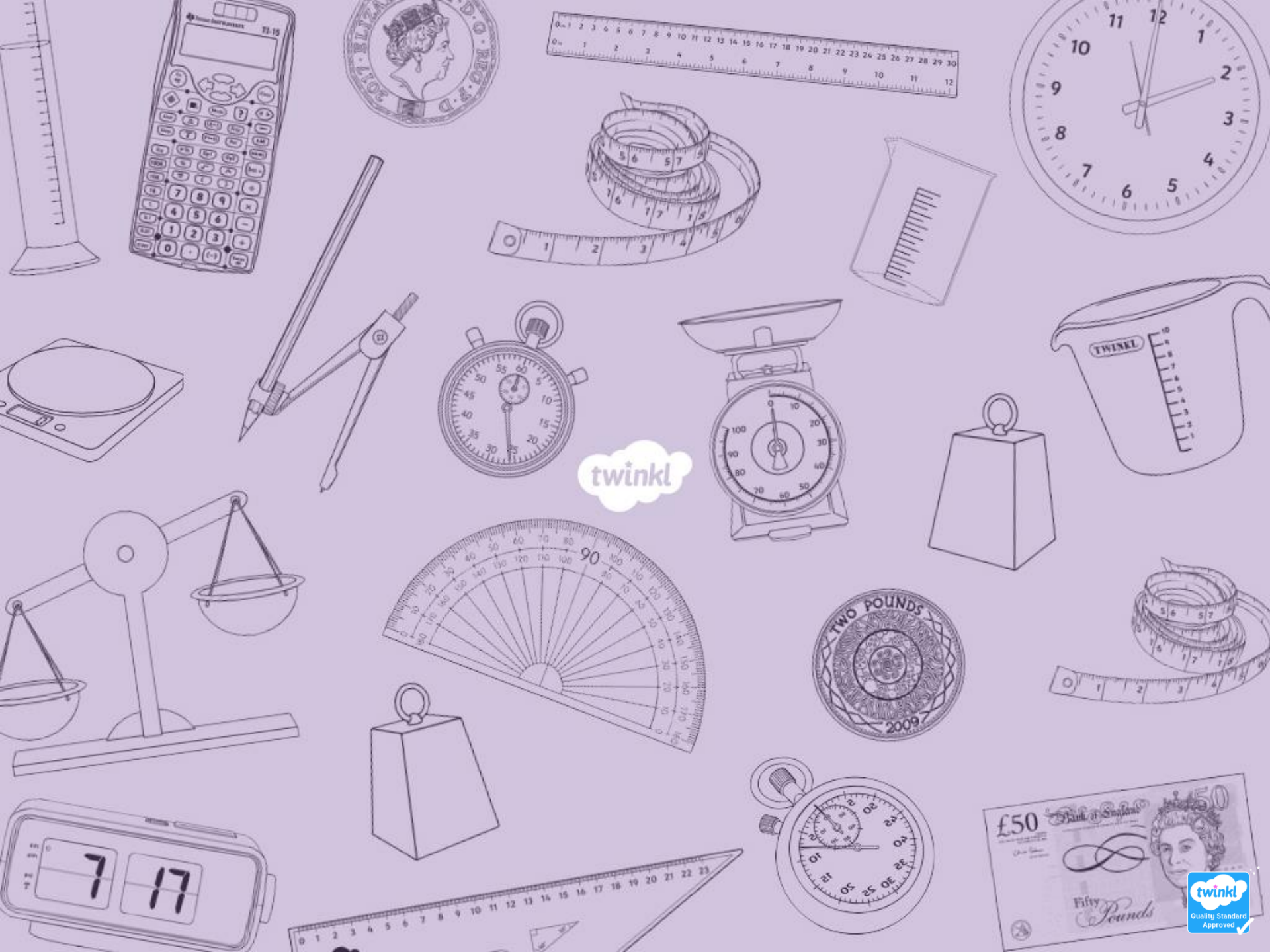
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