

# Measurement: Cooking Times

|   |  |  |
|---|--|--|
| <p><b>Aim:</b><br/>Solve problems involving converting between units of time.</p> <p>I can solve problems involving converting between times written as hours and minutes and times written in minutes.</p> | <p><b>Success Criteria:</b><br/>I can convert times given in minutes into hours and minutes.</p> <p>I can convert times given in hours and minutes into minutes.</p> <p>I can solve a problem involving timed events, converting from one unit to another.</p> | <p><b>Resources:</b><br/>Lesson Pack</p> <p>Individual whiteboards and pens – class set</p>                |
|   | <p><b>Key/New Words:</b><br/>Time, convert, hours, minutes.</p>  | <p><b>Preparation:</b><br/>Differentiated <a href="#">Cooking Times Activity Sheet</a> – one per child</p> |

**Prior Learning:** It will be helpful if children can add and subtract time amounts to times written in digital 12-hour time.

## Learning Sequence

|  |   |  |
|--|---|--|
|  | <p><b>How many eggs?</b> Use the <a href="#">Lesson Presentation</a> to recap the 6× table. Children calculate how many eggs are in multiple egg boxes.</p>   |  |
|  | <p><b>Converting Hours to Minutes:</b> Children convert the times written on the <a href="#">Lesson Presentation</a> from hours to minutes. The times start off in whole hours, then move onto fractional quantities (for example, 3½ hours).</p>   |  |
|  | <p><b>Cooking Start and Finish Times:</b> The <a href="#">Lesson Presentation</a> shows a variety of slow cooker meals, giving the start and end times for cooking. Children calculate the time it takes to cook the meals and write the answers in minutes. They then convert the cooking times from minutes to hours and minutes.</p>   |  |
|  | <p><b>Cooking Turkeys:</b> Information is given for the length of time required to cook a turkey linked to its weight. Children calculate the cooking time for a variety of turkeys, both whole and fractional measurements.</p>  |  |
|  | <p><b>Cooking Times:</b> Children complete the <a href="#">Cooking Times Activity Sheet</a>, solving problems involving converting between hours and minutes and minutes.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="215 1227 587 1666"> <p> Children convert from hours to minutes and minutes to whole hours. They calculate cooking times for recipes (times given in 15-minute intervals). They calculate the end times for recipes, given the start time and the cooking time. They calculate how long a turkey needs to be cooked, based on its weight. The weights are all whole kilogram weights.</p> </div> <div data-bbox="614 1227 991 1778"> <p> Children convert from hours to minutes and minutes to whole and fractional hours. They calculate cooking times for recipes (times given in five minute intervals). They calculate the end times for recipes, given the start time and the cooking time. They calculate how long a turkey needs to be cooked, based on its weight. The weights are whole kilogram and fractional kilogram weights. Children solve a problem, calculating when a turkey will be cooked, given the mass and start time.</p> </div> <div data-bbox="1018 1227 1394 1749"> <p> Children convert from hours to minutes and minutes to whole and fractional hours. They calculate cooking times for recipes (times given in five minute intervals). They calculate the start times for recipes, given the end time and the cooking time. They calculate how long a turkey needs to be cooked, based on its weight. The weights are whole kilogram and fractional kilogram weights. Children solve a problem, comparing the cooking times of two turkeys.</p> </div> </div> |  |
|  | <p><b>Turkey Problem:</b> Children solve a word problem involving cooking times for turkeys.</p>  |  |

## Explore it

**Play it:** Children use the internet to investigate cooking times for recipes. They create a table for further recipes, giving cooking times in both hours and minutes and minutes.

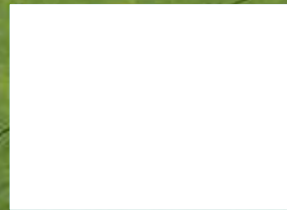
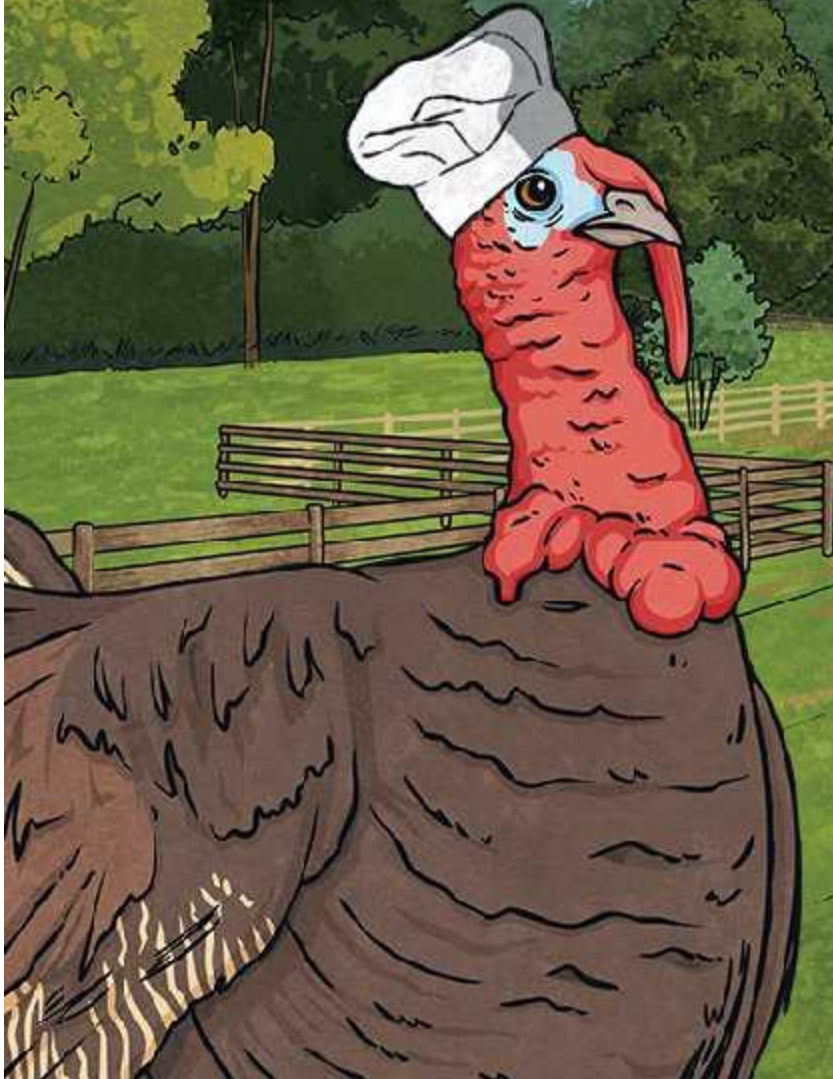
**Act it:** In pairs, children use the \_\_\_\_\_ to practise the skills of conversion used in the lesson.



# Maths

## Measurement

# Cooking Times



# Aim

- I can solve problems involving converting between times written as hours and minutes and times written in minutes.

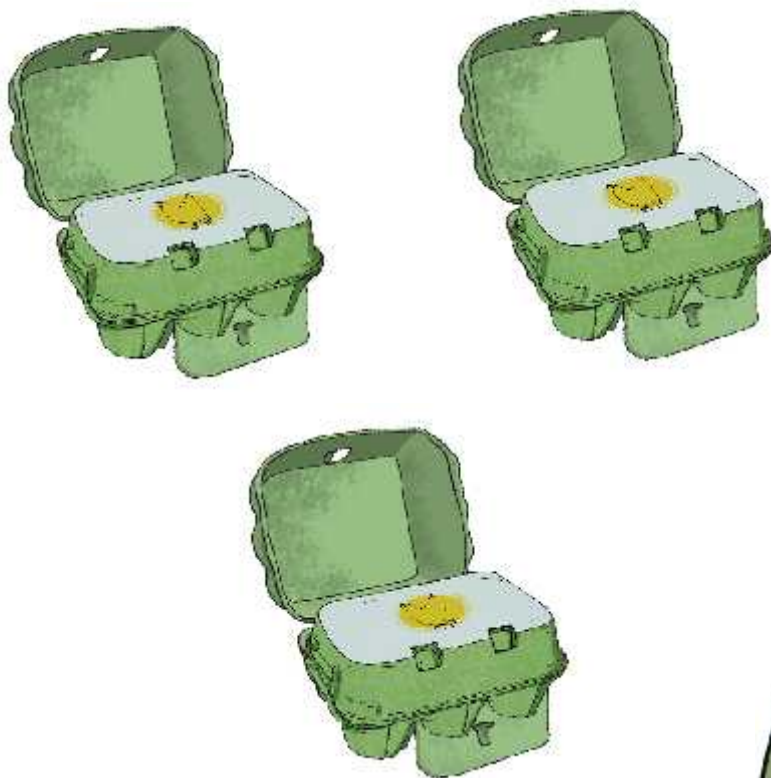
# Success Criteria

- I can convert times given in minutes into hours and minutes.
- I can convert times given in hours and minutes into minutes.
- I can solve a problem involving timed events, converting from one unit to another.

# How Many Eggs?



Eggs come in boxes of 6. How many eggs in these boxes?



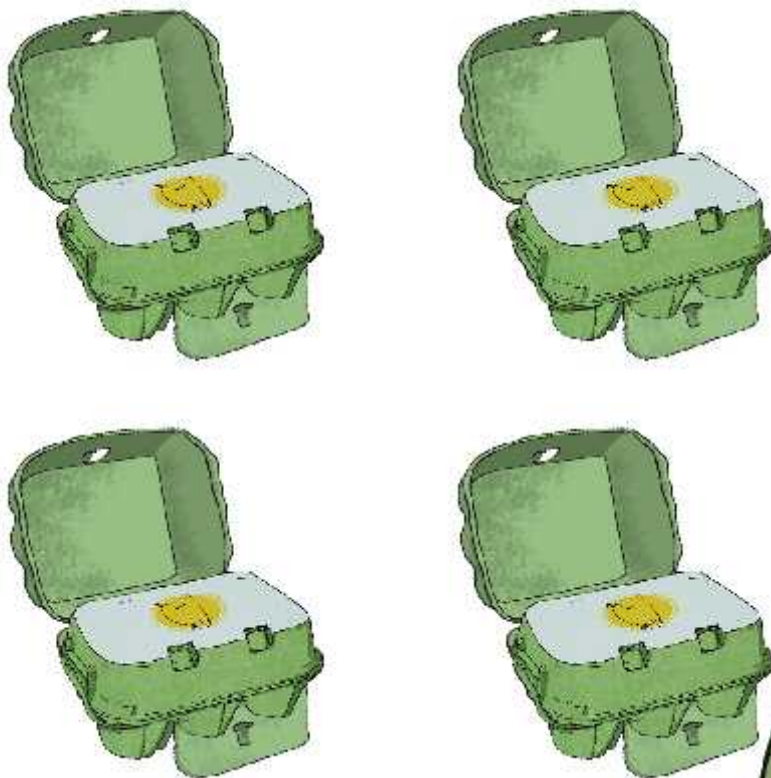
Answer:

$$3 \times 6 = 18$$

# How Many Eggs?

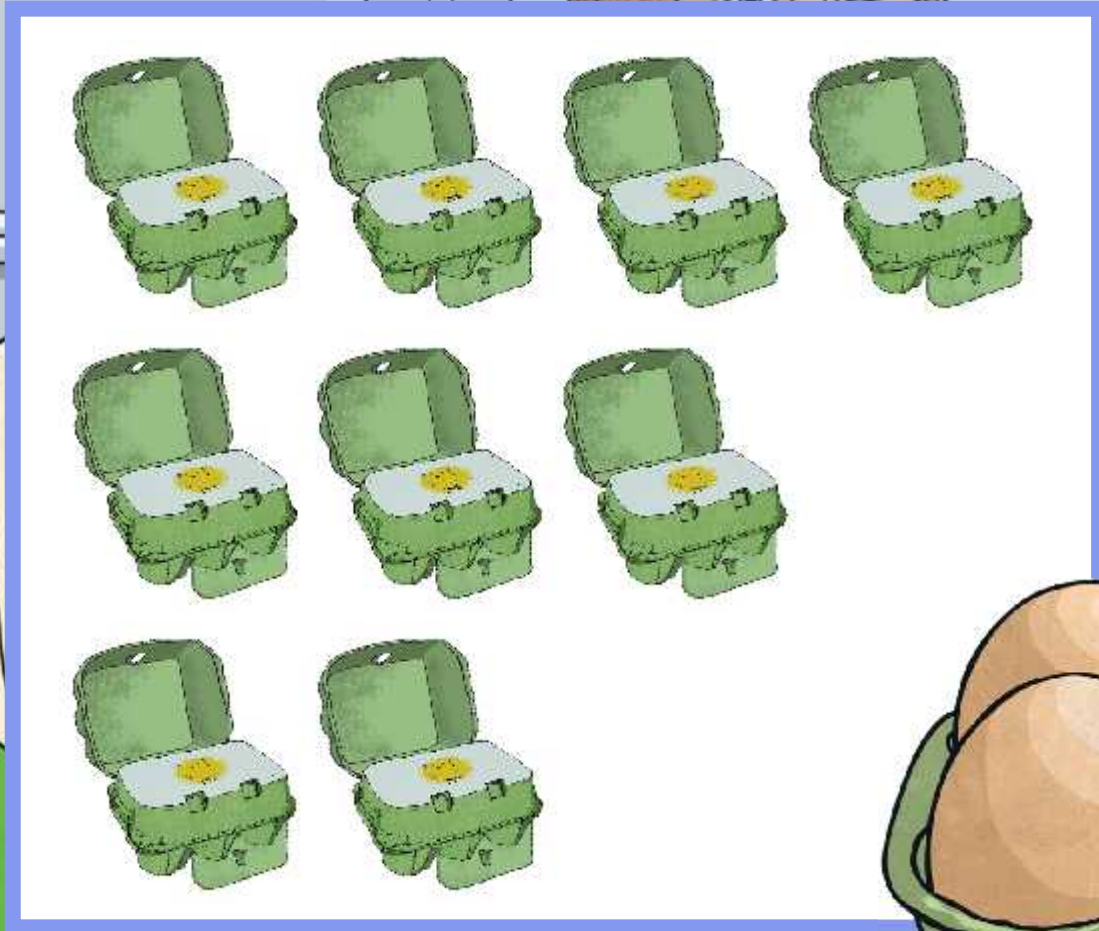


Eggs come in boxes of 6. How many eggs in these boxes?



Answer:  
 $4 \times 6 = 24$

# How Many Eggs?



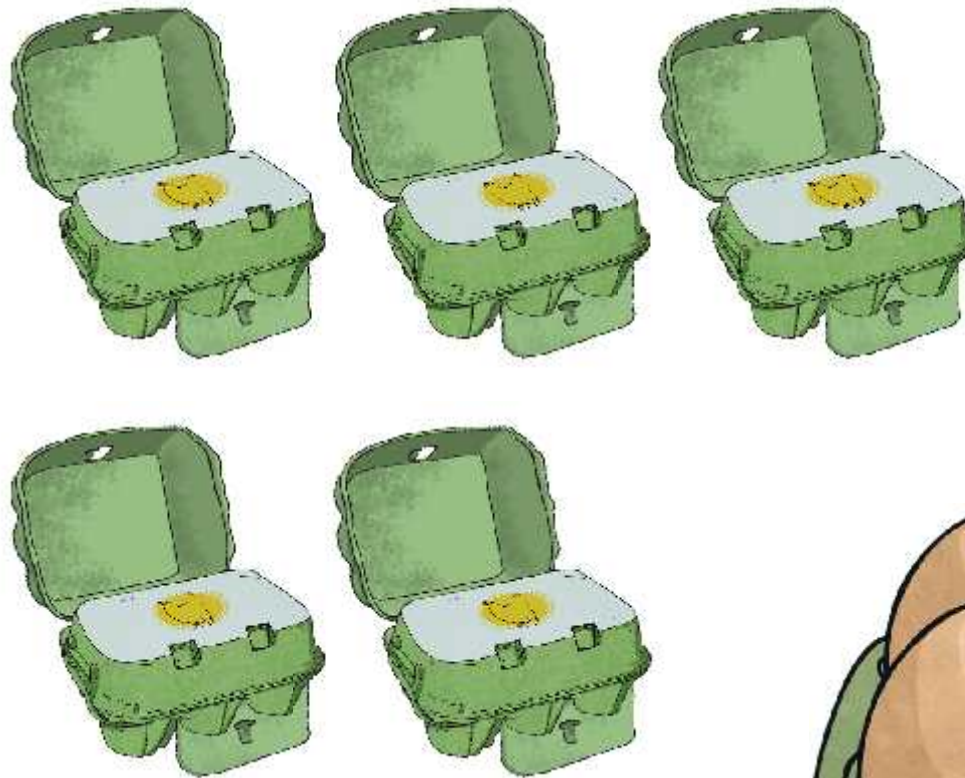
Eggs come in boxes of 6. How many eggs in these boxes?

Answer:  
 $9 \times 6 = 54$

# How Many Eggs?



Eggs come in boxes of 6. How many eggs in these boxes?



Answer:

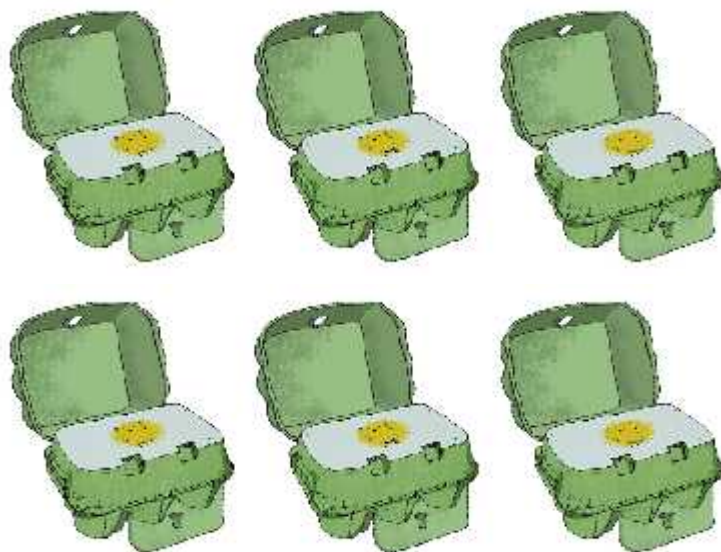
$$5 \times 6 = 30$$



# How Many Eggs?



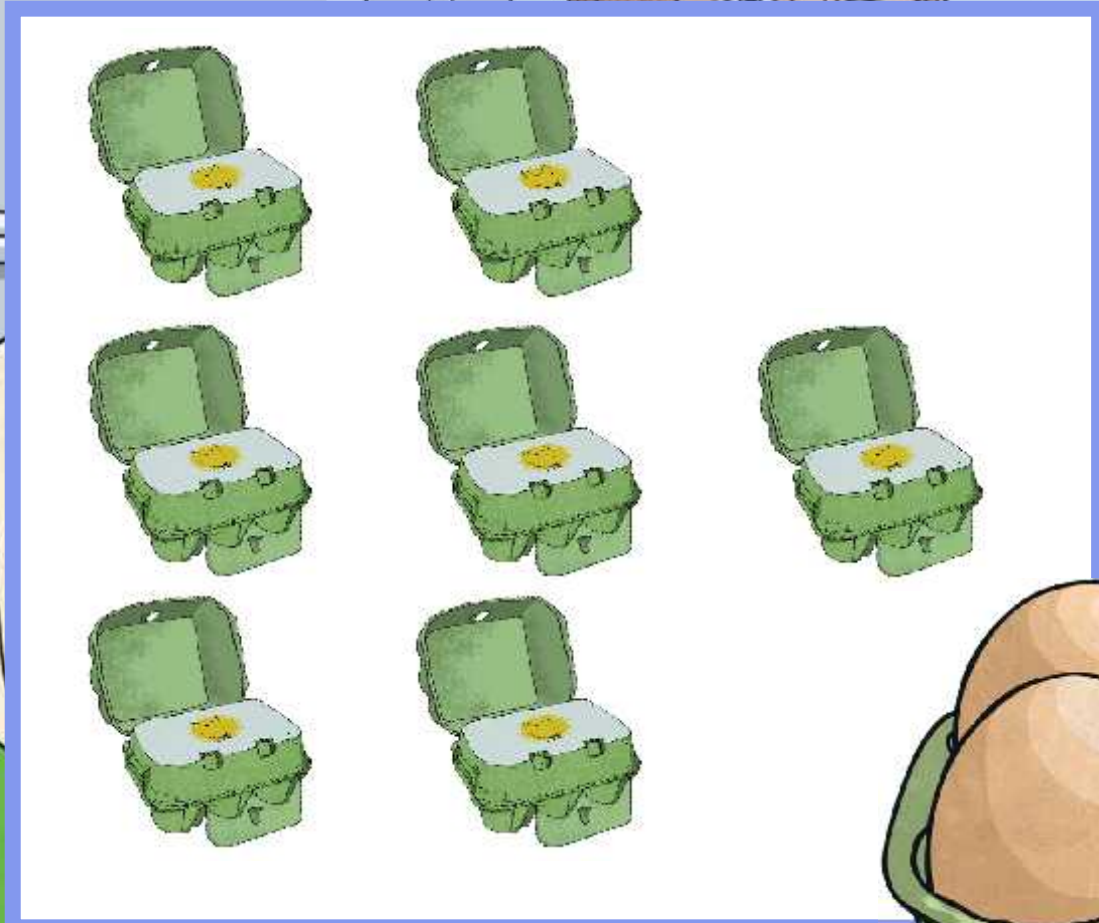
Eggs come in boxes of 6. How many eggs in these boxes?



Answer:

$$6 \times 6 = 36$$

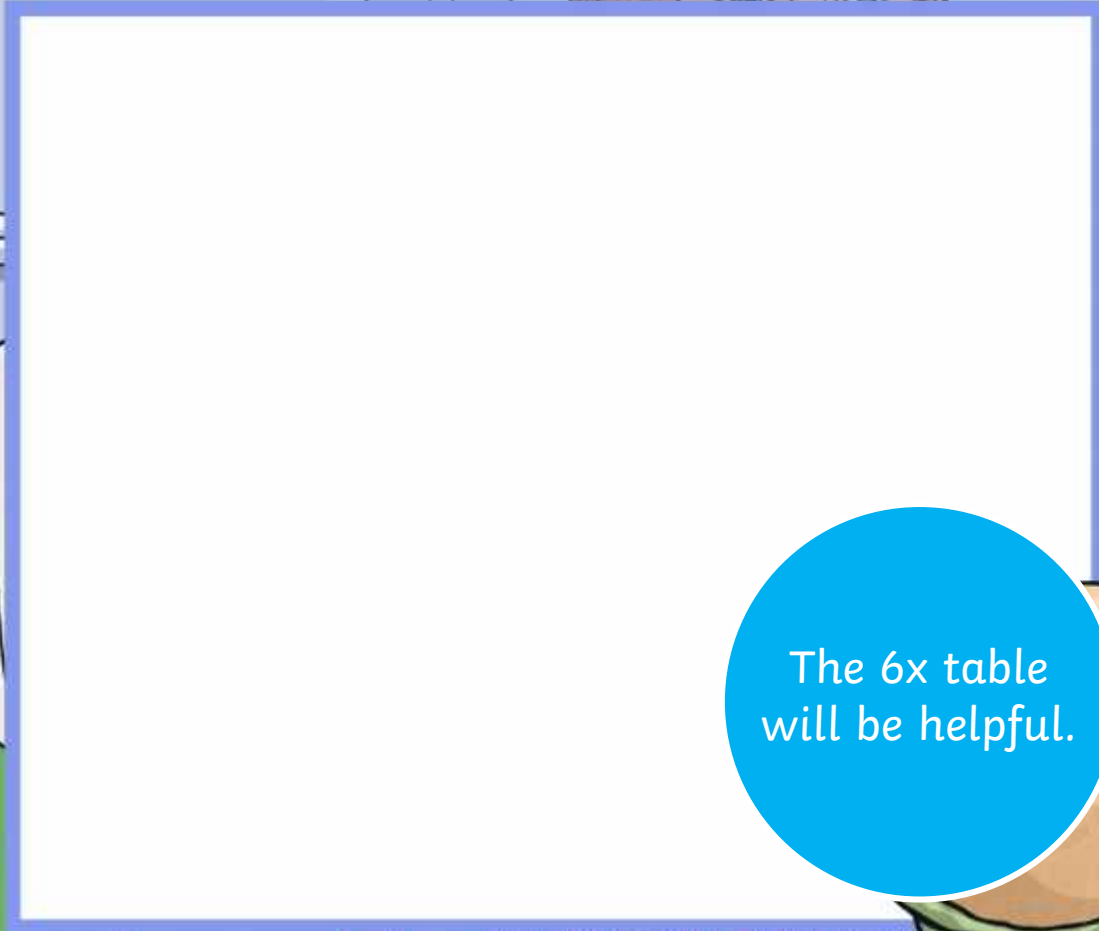
# How Many Eggs?



Eggs come in boxes of 6. How many eggs in these boxes?

Answer:  
 $7 \times 6 = 42$

# Converting Hours to Minutes



Eggs come in boxes of 6. How many eggs in these boxes?

We  
j?

The 6x table will be helpful.

We need to multiply and divide by 60, because there are 60 minutes in one hour.

# Converting Hours to Minutes



Can you use your 6× table to complete the list of multiples of 60?

There are 60 minutes in 1 hour. Convert these times into minutes.

|         |                 |                            |
|---------|-----------------|----------------------------|
|         | $3 \times 60$   | 180                        |
| 2 hours | $4 \times 60 =$ | <del>120</del> 240 minutes |
|         | $5 \times 60$   | 300                        |
| 5 hours | $6 \times 60 =$ | <del>300</del> 360 minutes |
|         | $7 \times 60$   | 420                        |
| 8 hours | $8 \times 60 =$ | <del>480</del> 480 minutes |
|         | $9 \times 60$   | 540                        |
|         | $10 \times 60$  | 600                        |

# Converting Hours to Minutes



There are 60 minutes in 1 hour.  
Convert these times into minutes.

of 60?

|                      |   |                                   |
|----------------------|---|-----------------------------------|
| $\frac{3}{4}$ hour   | = | <del>45</del> <b>45</b> minutes   |
| $3\frac{1}{2}$ hours | = | <del>225</del> <b>225</b> minutes |
| $8\frac{3}{4}$ hours | = | <del>295</del> <b>295</b> minutes |

# Cooking Start and Finish Times

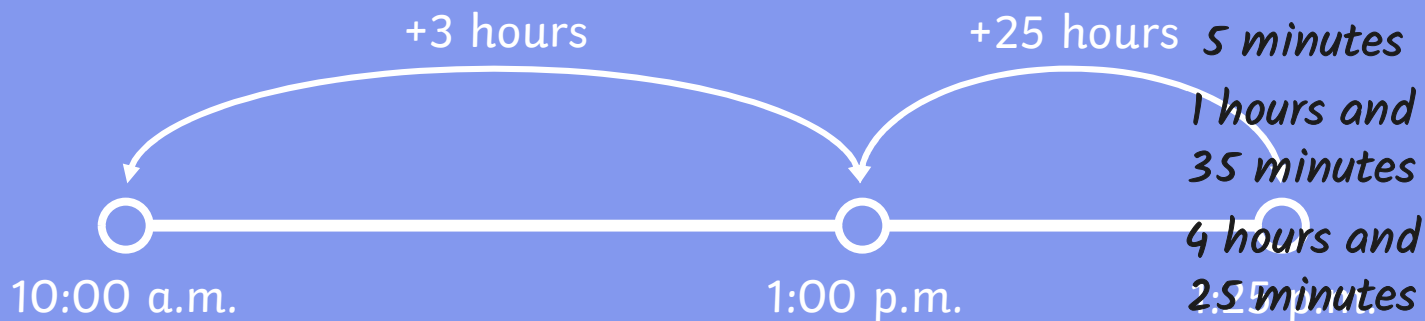


Here are some popular times are given. Calculate your answer in hours and minutes.

Now calculate how long the other recipes take to cook, write your answers in hours and minutes.

| Recipe                    | Start Time | End Time  | Time Taken (Hours and Minutes) |
|---------------------------|------------|-----------|--------------------------------|
| Spinach and chicken curry | 10:00 a.m. | 1:25 p.m. | 3 hours and 25 minutes         |

Let's calculate the time taken for the first recipe. We can use a timeline:



# Cooking Start and Finish Times



Convert the cooking times from hours and minutes to just the total number of minutes. The first one has been done:

| Recipe                    | Time Taken<br>(Hours and Minutes) | Time Taken<br>(Minutes) |
|---------------------------|-----------------------------------|-------------------------|
| Spinach and chicken curry | 3 hours 25 minutes                | 205 minutes             |
| Chicken casserole         | 4 hours 10 minutes                | <i>250 minutes</i>      |
| Meat stroganoff           | 6 hours 5 minutes                 | <i>365 minutes</i>      |
| Mushroom risotto          | 1 hour 35 minutes                 | <i>95 minutes</i>       |
| Rice pudding              | 4 hours 25 minutes                | <i>265 minutes</i>      |

# Cooking Turkeys



To cook a turkey, the following guidelines should be used:

If the turkey weighs 4kg  
it should be cooked for 20 minutes.  
Did you have a different way of calculating  $4.5 \times 20$ ?

It is under 20 minutes.  
To multiply by 20, we can double then multiply by 10.

So, if you had a turkey that weighed **3kg**, you would follow

How long should a turkey that weighs **3.5kg** be cooked for?

**Answer:**

$$3.5\text{kg} \times 20 \text{ minutes} = 70 \text{ minutes}$$

$$70 \text{ minutes} + 70 \text{ minutes} = 140 \text{ minutes}$$

$$140 \text{ minutes} = 2 \text{ hours } 20 \text{ minutes}$$



# Cooking Times



## Cooking Times

I can solve problems involving converting between times written as hours and minutes and times written in minutes.

1. Convert the following times from hours to minutes.

- a. 3 hours = \_\_\_\_\_ minutes
- b. 7 hours = \_\_\_\_\_ minutes
- c. 5 hours = \_\_\_\_\_ minutes
- d. 8 hours = \_\_\_\_\_ minutes

2. Convert the following times from minutes to hours.

- a. 360 minutes = \_\_\_\_\_ hours
- b. 120 minutes = \_\_\_\_\_ hours
- c. 600 minutes = \_\_\_\_\_ hours
- d. 240 minutes = \_\_\_\_\_ hours

3. Prue has been very busy developing new recipes for the Slow Chef Recipe Book. She recorded the time she started cooking and when each dish was cooked to perfection. Help her to calculate how long each recipe took to cook, writing your answer in minutes.

| Recipe                   | Start Time | End Time  | Cooking Time (Minutes) |
|--------------------------|------------|-----------|------------------------|
| Vegetable curry          | 10:30 a.m. | 1:00 p.m. |                        |
| Onion soup               | 1:00 p.m.  | 4:30 p.m. |                        |
| Bread and butter pudding | 4:15 p.m.  | 7:15 p.m. |                        |
| Roast chicken            | 11:45 a.m. | 5:15 p.m. |                        |

Use your wonderful skills of conversion to complete this activity sheet.

# Turkey Problem



Who would like to show how they worked out the answer?

Answer:  
**1:10 p.m.**

The Burns family are having turkey for their family celebration meal. Dad wants to have the turkey cooked 45 minutes before they sit down to eat. The family plan to eat their meal at 6:15 p.m. The turkey weighs 8.5kg. What time does he need to put the turkey into the oven?

## ▼ Cooking Turkey Information

If the turkey is 4kg or over, calculate 20 minutes per kg plus 90 minutes.  
If the turkey is under 4kg, calculate 20 minutes per kg plus 70 minutes.

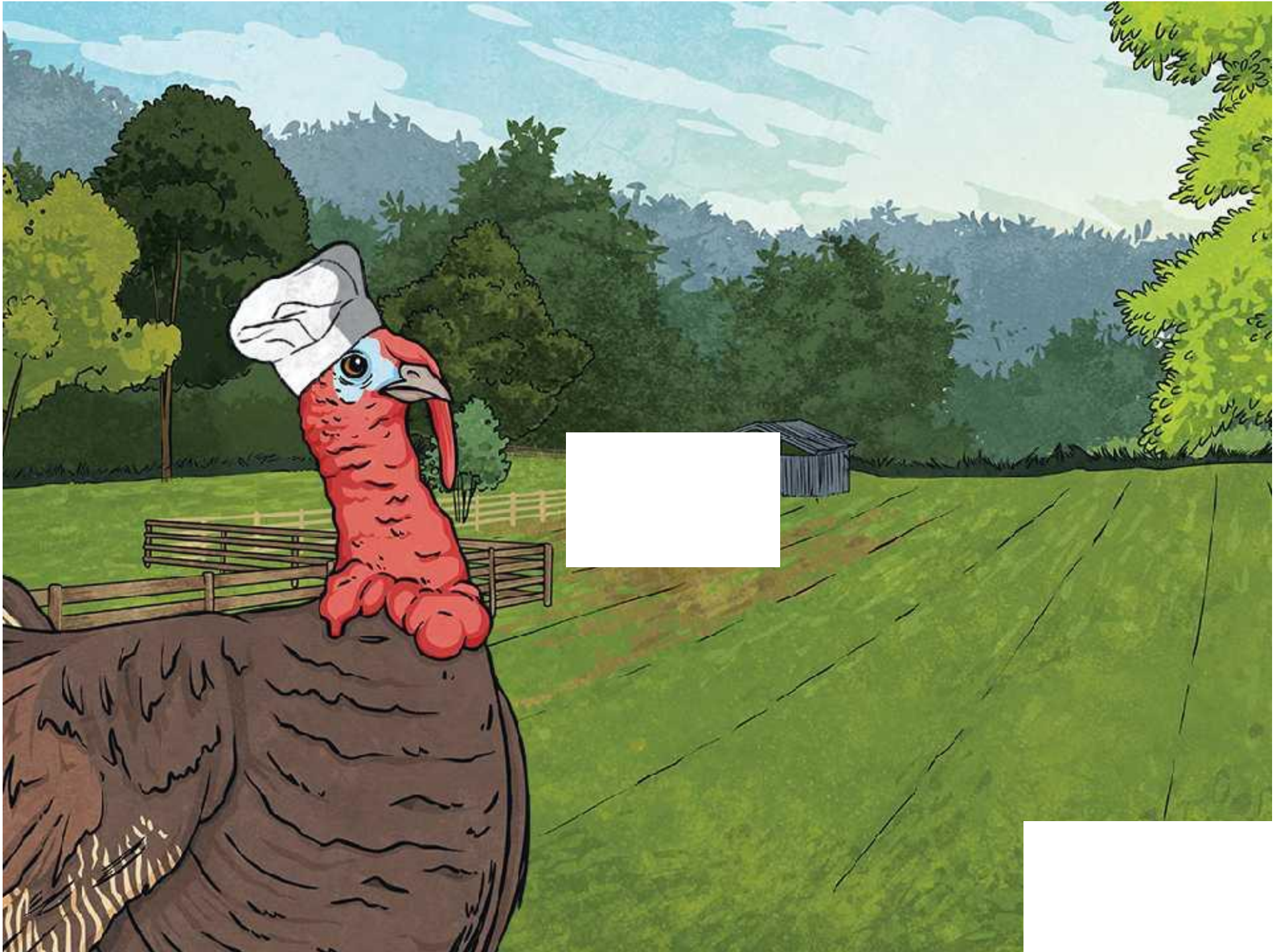
# Aim



- I can solve problems involving converting between times written as hours and minutes and times written in minutes.

# Success Criteria

- I can convert times given in minutes into hours and minutes.
- I can convert times given in hours and minutes into minutes.
- I can solve a problem involving timed events, converting from one unit to another.



|  |           |               |                |                       |            |          |                 |           |           |
|--|-----------|---------------|----------------|-----------------------|------------|----------|-----------------|-----------|-----------|
| <b>Aim:</b> I can solve problems involving converting between times written as hours and minutes and times written in minutes. |           |               |                | <b>Date:</b>          |            |          |                 |           |           |
|  |           |               |                | <b>Delivered By:</b>  |            |          | <b>Support:</b> |           |           |
| <b>Success Criteria</b>  | <b>Me</b> | <b>Friend</b> | <b>Teacher</b> | <b>T</b>              | <b>PPA</b> | <b>S</b> | <b>I</b>        | <b>AL</b> | <b>GP</b> |
| I can convert times given in minutes into hours and minutes.   |           |               |                | <b>Notes/Evidence</b> |            |          |                 |           |           |
| I can convert times given in hours and minutes into minutes.   |           |               |                |                       |            |          |                 |           |           |
| I can solve a problem involving timed events, converting from one unit to another.   |           |               |                |                       |            |          |                 |           |           |
|  |           |               |                |                       |            |          |                 |           |           |
| Next Steps   |           |               |                |                       |            |          |                 |           |           |
| ) _____  |           |               |                |                       |            |          |                 |           |           |
| ) _____  |           |               |                |                       |            |          |                 |           |           |

|            |                                      |           |                 |
|------------|--------------------------------------|-----------|-----------------|
| <b>T</b>   | Teacher                              | <b>I</b>  | Independent     |
| <b>PPA</b> | Planning, Preparation and Assessment | <b>AL</b> | Adult Led       |
| <b>S</b>   | Supply                               | <b>GP</b> | Guided Practice |

|  |           |               |                |                       |            |          |                 |           |           |
|--|-----------|---------------|----------------|-----------------------|------------|----------|-----------------|-----------|-----------|
| <b>Aim:</b> I can solve problems involving converting between times written as hours and minutes and times written in minutes. |           |               |                | <b>Date:</b>          |            |          |                 |           |           |
|  |           |               |                | <b>Delivered By:</b>  |            |          | <b>Support:</b> |           |           |
| <b>Success Criteria</b>  | <b>Me</b> | <b>Friend</b> | <b>Teacher</b> | <b>T</b>              | <b>PPA</b> | <b>S</b> | <b>I</b>        | <b>AL</b> | <b>GP</b> |
| I can convert times given in minutes into hours and minutes.   |           |               |                | <b>Notes/Evidence</b> |            |          |                 |           |           |
| I can convert times given in hours and minutes into minutes.   |           |               |                |                       |            |          |                 |           |           |
| I can solve a problem involving timed events, converting from one unit to another.   |           |               |                |                       |            |          |                 |           |           |
|  |           |               |                |                       |            |          |                 |           |           |
| Next Steps   |           |               |                |                       |            |          |                 |           |           |
| ) _____  |           |               |                |                       |            |          |                 |           |           |
| ) _____  |           |               |                |                       |            |          |                 |           |           |

|            |                                      |           |                 |
|------------|--------------------------------------|-----------|-----------------|
| <b>T</b>   | Teacher                              | <b>I</b>  | Independent     |
| <b>PPA</b> | Planning, Preparation and Assessment | <b>AL</b> | Adult Led       |
| <b>S</b>   | Supply                               | <b>GP</b> | Guided Practice |



# Cooking Times

I can solve problems involving converting between times written as hours and minutes and times written in minutes.



1. Convert the following times from hours to minutes.

a. 3 hours = \_\_\_\_\_ minutes

b. 7 hours = \_\_\_\_\_ minutes

c. 5 hours = \_\_\_\_\_ minutes

d. 8 hours = \_\_\_\_\_ minutes

2. Convert the following times from minutes to hours.

a. 360 minutes = \_\_\_\_\_ hours

b. 120 minutes = \_\_\_\_\_ hours

c. 600 minutes = \_\_\_\_\_ hours

d. 240 minutes = \_\_\_\_\_ hours

3. Prue has been very busy developing new recipes for the Slow Chef Recipe Book. She recorded the time she started cooking and when each dish was cooked to perfection. Help her to calculate how long each recipe took to cook, writing your answer in minutes.

| Recipe                   | Start Time | End Time  | Cooking Time (Minutes) |
|--------------------------|------------|-----------|------------------------|
| Vegetable curry          | 10:30 a.m. | 1:00 p.m. |                        |
| Onion soup               | 1:00 p.m.  | 4:30 p.m. |                        |
| Bread and butter pudding | 4:15 p.m.  | 7:15 p.m. |                        |
| Roast chicken            | 11:45 a.m. | 5:15 p.m. |                        |



4. Paul wants his dinner to be ready at these end times. The Slow Chef Recipe Book tells him how long each dish takes to cook. Help him to calculate what time to start cooking.

| Recipe              | Start Time | End Time   | Cooking Time |
|---------------------|------------|------------|--------------|
| Vegetable casserole |            | 3:30 p.m.  | 300 minutes  |
| Chilli con carne    |            | 6:00 p.m.  | 240 minutes  |
| Cheese cake         |            | 5:45 p.m.  | 120 minutes  |
| Macaroni cheese     |            | 12:45 p.m. | 90 minutes   |

5. To cook a turkey, the following guidelines should be used:

|                               |  |
|-------------------------------|--|
| If the turkey is 4kg and over | calculate 20 minutes per kg plus 90 minutes. |
| If the turkey is under 4kg    | calculate 20 minutes per kg plus 70 minutes. |

Calculate how long you should cook the following sized turkeys. Write your answer in hours and minutes. Show how you worked out the answer.

|                          |
|--------------------------|
| a) a turkey weighing 6kg |
| b) a turkey weighing 2kg |
| c) a turkey weighing 7kg |



# Cooking Times Answers

1. Convert the following times from hours to minutes.

- a. 3 hours = **180** minutes
- b. 7 hours = **420** minutes
- c. 5 hours = **300** minutes
- d. 8 hours = **480** minutes

2. Convert the following times from minutes to hours.

- a. 360 minutes = **6** hours
- b. 120 minutes = **2** hours
- c. 600 minutes = **10** hours
- d. 240 minutes = **4** hours

3. Prue has been very busy developing new recipes for the Slow Chef Recipe Book. She recorded the time she started cooking and when each dish was cooked to perfection. Help her to calculate how long each recipe took to cook, writing your answer in minutes.

| Recipe                   | Start Time | End Time  | Cooking Time (Minutes) |
|--------------------------|------------|-----------|------------------------|
| Vegetable curry          | 10:30 a.m. | 1:00 p.m. | <b>150 minutes</b>     |
| Onion soup               | 1:00 p.m.  | 4:30 p.m. | <b>210 minutes</b>     |
| Bread and butter pudding | 4:15 p.m.  | 7:15 p.m. | <b>180 minutes</b>     |
| Roast chicken            | 11:45 a.m. | 5:15 p.m. | <b>330 minutes</b>     |

4. Paul wants his dinner to be ready at these end times. The Slow Chef Recipe Book tells him how long each dish takes to cook. Help him to calculate what time to start cooking.

| Recipe              | Start Time        | End Time   | Cooking Time |
|---------------------|-------------------|------------|--------------|
| Vegetable casserole | <b>10:30 a.m.</b> | 3:30 p.m.  | 300 minutes  |
| Chilli con carne    | <b>2:00 p.m.</b>  | 6:00 p.m.  | 240 minutes  |
| Cheese cake         | <b>3:45 p.m.</b>  | 5:45 p.m.  | 120 minutes  |
| Macaroni cheese     | <b>11:15 a.m.</b> | 12:45 p.m. | 90 minutes   |

5. Calculate how long you should cook the following sized turkeys. Write your answer in hours and minutes. Show how you worked out the answer.

- a. a turkey weighing 6kg  
**3 hours 30 minutes**
- b. a turkey weighing 2kg  
**1 hour 50 minutes**
- c. a turkey weighing 7kg  
**3 hours 50 minutes**





# Cooking Times

I can solve problems involving converting between times written as hours and minutes and times written in minutes.



- Convert the following times from hours to minutes.
  - 6 hours = \_\_\_\_\_ minutes
  - $2\frac{1}{2}$  hours = \_\_\_\_\_ minutes
  - $3\frac{1}{4}$  hours = \_\_\_\_\_ minutes
  - $5\frac{3}{4}$  hours = \_\_\_\_\_ minutes
- Convert the following times from minutes to hours. Use a fraction to record additional minutes (e.g.  $2\frac{1}{2}$  hours).
  - 240 minutes = \_\_\_\_\_ hours
  - 315 minutes = \_\_\_\_\_ hours
  - 375 minutes = \_\_\_\_\_ hours
  - 510 minutes = \_\_\_\_\_ hours
- Nigella has been very busy developing new recipes for the Slow Chef Recipe Book. She recorded the time she started cooking and when each dish was cooked to perfection. Help her to calculate how long each recipe took to cook, writing your answer in minutes.

| Recipe         | Start Time | End Time  | Cooking Time (Minutes) |
|----------------|------------|-----------|------------------------|
| Potato curry   | 9:35 a.m.  | 2:10 p.m. |                        |
| Tomato soup    | 3:10 p.m.  | 5:55 p.m. |                        |
| Sponge pudding | 2:20 p.m.  | 7:45 p.m. |                        |
| Chicken hotpot | 10:55 a.m. | 6:05 p.m. |                        |



4. Gordon wants his dinner to be ready at these end times. The Slow Chef Recipe Book tells him how long each dish takes to cook. Help him to calculate what time to start cooking.

| Recipe         | Start Time | End Time  | Cooking Time |
|----------------|------------|-----------|--------------|
| Bean casserole |            | 7:40 p.m. | 600 minutes  |
| Veggie mash    |            | 4:30 p.m. | 200 minutes  |
| Sponge cake    |            | 6:45 p.m. | 260 minutes  |

5. To cook a turkey, the following guidelines should be used:

|                               |  |
|-------------------------------|--|
| If the turkey is 4kg and over | calculate 20 minutes per kg plus 90 minutes. |
| If the turkey is under 4kg    | calculate 20 minutes per kg plus 70 minutes. |

Calculate how long you should cook the following sized turkeys.

Write your answer in hours and minutes. Show how you worked out the answer.

|                            |
|----------------------------|
| a) a turkey weighing 7kg   |
| b) a turkey weighing 3.5kg |
| c) a turkey weighing 8.5kg |

6. A 5kg turkey is put in the oven at 2:15 p.m. When will it be cooked?
-



# Cooking Times Answers

- Convert the following times from hours to minutes.
  - 6 hours = **360** minutes
  - $2\frac{1}{2}$  hours = **150** minutes
  - $3\frac{1}{4}$  hours = **195** minutes
  - $5\frac{3}{4}$  hours = **345** minutes
- Convert the following times from minutes to hours. Use a fraction to record additional minutes (e.g.  $2\frac{1}{2}$  hours).
  - 240 minutes = **4** hours
  - 315 minutes =  **$5\frac{1}{4}$**  hours
  - 375 minutes =  **$6\frac{1}{4}$**  hours
  - 510 minutes =  **$8\frac{1}{2}$**  hours
- Nigella has been very busy developing new recipes for the Slow Chef Recipe Book. She recorded the time she started cooking and when each dish was cooked to perfection. Help her to calculate how long each recipe took to cook, writing your answer in minutes.

| Recipe         | Start Time | End Time  | Cooking Time (Minutes) |
|----------------|------------|-----------|------------------------|
| Potato curry   | 9:35 a.m.  | 2:10 p.m. | <b>275 minutes</b>     |
| Tomato soup    | 3:10 p.m.  | 5:55 p.m. | <b>165 minutes</b>     |
| Sponge pudding | 2:20 p.m.  | 7:45 p.m. | <b>325 minutes</b>     |
| Chicken hotpot | 10:55 a.m. | 6:05 p.m. | <b>430 minutes</b>     |

- Gordon wants his dinner to be ready at these end times. The Slow Chef Recipe Book tells him how long each dish takes to cook. Help him to calculate what time to start cooking.

| Recipe         | Start Time       | End Time  | Cooking Time |
|----------------|------------------|-----------|--------------|
| Bean casserole | <b>9:40 a.m.</b> | 7:40 p.m. | 600 minutes  |
| Veggie mash    | <b>1:10 p.m.</b> | 4:30 p.m. | 200 minutes  |
| Sponge cake    | <b>2:25 p.m.</b> | 6:45 p.m. | 260 minutes  |

- Calculate how long you should cook the following sized turkeys. Write your answer in hours and minutes. Show how you worked out the answer.
  - a turkey weighing 7kg  
**3 hours 50 minutes**
  - a turkey weighing 3.5kg  
**2 hours 20 minutes**
  - a turkey weighing 8.5kg  
**4 hours 20 minutes**
- A 5kg turkey is put in the oven at 2:15 p.m. When will it be cooked?  
**5:25 p.m.**



# Cooking Times

I can solve problems involving converting between times written as hours and minutes and times written in minutes.



1. Convert the following times from hours to minutes.

- a. 5 hours = \_\_\_\_\_ minutes
- b.  $3\frac{1}{2}$  hours = \_\_\_\_\_ minutes
- c.  $8\frac{1}{4}$  hours = \_\_\_\_\_ minutes
- d.  $7\frac{3}{4}$  hours = \_\_\_\_\_ minutes

2. Convert the following times from minutes to hours. Use a fraction to record additional minutes (e.g.  $2\frac{1}{2}$  hours).

- a. 165 minutes = \_\_\_\_\_ hours
- b. 555 minutes = \_\_\_\_\_ hours
- c. 330 minutes = \_\_\_\_\_ hours
- d. 405 minutes = \_\_\_\_\_ hours

3. Nadia has been very busy developing new recipes for the Slow Chef Recipe Book. She recorded the time she started cooking and when each dish was cooked to perfection. Help her to calculate how long each recipe took to cook, writing your answer in minutes.

| Recipe           | Start Time | End Time  | Cooking Time (Minutes) |
|------------------|------------|-----------|------------------------|
| Aubergine curry  | 10:45 a.m. | 3:30 p.m. |                        |
| Carrot soup      | 2:05 p.m.  | 6:40 p.m. |                        |
| Semolina pudding | 1:25 p.m.  | 5:05 p.m. |                        |
| Vegetable hotpot | 9:35 a.m.  | 5:55 p.m. |                        |



4. Rahul wants his dinner to be ready at these end times. The Slow Chef Recipe Book tells him how long each dish takes to cook. Help him to calculate what time to start cooking.

| Recipe              | Start Time | End Time  | Cooking Time |
|---------------------|------------|-----------|--------------|
| Vegetable casserole |            | 3:45 p.m. | 300 minutes  |
| Goulash             |            | 5:15 p.m. | 210 minutes  |
| Drizzle cake        |            | 1:35 p.m. | 190 minutes  |

5. To cook a turkey, the following guidelines should be used:

|                               |  |
|-------------------------------|--|
| If the turkey is 4kg and over | calculate 20 minutes per kg plus 90 minutes. |
| If the turkey is under 4kg    | calculate 20 minutes per kg plus 70 minutes. |

Calculate how long you should cook the following sized turkeys. Write your answer in hours and minutes. Show how you worked out the answer.

|                            |
|----------------------------|
| a) a turkey weighing 5.3kg |
| b) a turkey weighing 2.8kg |
| c) a turkey weighing 7.5kg |

6. How much longer does turkey weighing 4kg take to cook than one which weighs 3.5kg?
-



# Cooking Times Answers

- Convert the following times from hours to minutes.
  - 5 hours = **300** minutes
  - $3\frac{1}{2}$  hours = **210** minutes
  - $8\frac{1}{4}$  hours = **495** minutes
  - $7\frac{3}{4}$  hours = **465** minutes
- Convert the following times from minutes to hours. Use a fraction to record additional minutes (e.g.  $2\frac{1}{2}$  hours).
  - 165 minutes =  $2\frac{3}{4}$  hours
  - 555 minutes =  $9\frac{1}{4}$  hours
  - 330 minutes =  $5\frac{1}{2}$  hours
  - 405 minutes =  $6\frac{3}{4}$  hours
- Nigella has been very busy developing new recipes for the Slow Chef Recipe Book. She recorded the time she started cooking and when each dish was cooked to perfection. Help her to calculate how long each recipe took to cook, writing your answer in minutes.

| Recipe           | Start Time | End Time  | Cooking Time (Minutes) |
|------------------|------------|-----------|------------------------|
| Aubergine curry  | 10:45 a.m. | 3:30 p.m. | <b>285 minutes</b>     |
| Carrot soup      | 2:05 p.m.  | 6:40 p.m. | <b>275 minutes</b>     |
| Semolina pudding | 1:25 p.m.  | 5:05 p.m. | <b>220 minutes</b>     |
| Vegetable hotpot | 9:35 a.m.  | 5:55 p.m. | <b>500 minutes</b>     |

- Rahul wants his dinner to be ready at these end times. The Slow Chef Recipe Book tells him how long each dish takes to cook. Help him to calculate what time to start cooking.

| Recipe              | Start Time        | End Time  | Cooking Time |
|---------------------|-------------------|-----------|--------------|
| Vegetable casserole | <b>10:45 a.m.</b> | 3:45 p.m. | 300 minutes  |
| Goulash             | <b>1:45 p.m.</b>  | 5:15 p.m. | 210 minutes  |
| Drizzle cake        | <b>10:25 a.m.</b> | 1:35 p.m. | 190 minutes  |

- Calculate how long you should cook the following sized turkeys. Write your answer in hours and minutes. Show how you worked out the answer.
  - a turkey weighing 5.3kg  
**3 hours 16 minutes**
  - a turkey weighing 2.8kg  
**2 hours 6 minutes**
  - a turkey weighing 7.5kg  
**4 hours**
- How much longer does turkey weighing 4kg take to cook than one which weighs 3.5kg?  
**30 minutes**

Measurement | Cooking Times

|  |  |  |
|--|--|--|
| I can solve problems involving converting between times written as hours and minutes and times written in minutes. |  |  |
| I can convert times given in minutes into hours and minutes.   |  |  |
| I can convert times given in hours and minutes into minutes.   |  |  |
| I can solve a problem involving timed events, converting from one unit to another.                                 |  |  |

Measurement | Cooking Times

|  |  |  |
|--|--|--|
| I can solve problems involving converting between times written as hours and minutes and times written in minutes. |  |  |
| I can convert times given in minutes into hours and minutes.   |  |  |
| I can convert times given in hours and minutes into minutes.   |  |  |
| I can solve a problem involving timed events, converting from one unit to another.                                 |  |  |

Measurement | Cooking Times

|  |  |  |
|--|--|--|
| I can solve problems involving converting between times written as hours and minutes and times written in minutes. |  |  |
| I can convert times given in minutes into hours and minutes.   |  |  |
| I can convert times given in hours and minutes into minutes.   |  |  |
| I can solve a problem involving timed events, converting from one unit to another.                                 |  |  |

Measurement | Cooking Times

|  |  |  |
|--|--|--|
| I can solve problems involving converting between times written as hours and minutes and times written in minutes. |  |  |
| I can convert times given in minutes into hours and minutes.   |  |  |
| I can convert times given in hours and minutes into minutes.   |  |  |
| I can solve a problem involving timed events, converting from one unit to another.                                 |  |  |

Measurement | Cooking Times

|  |  |  |
|--|--|--|
| I can solve problems involving converting between times written as hours and minutes and times written in minutes. |  |  |
| I can convert times given in minutes into hours and minutes.   |  |  |
| I can convert times given in hours and minutes into minutes.   |  |  |
| I can solve a problem involving timed events, converting from one unit to another.                                 |  |  |

Measurement | Cooking Times

|  |  |  |
|--|--|--|
| I can solve problems involving converting between times written as hours and minutes and times written in minutes. |  |  |
| I can convert times given in minutes into hours and minutes.   |  |  |
| I can convert times given in hours and minutes into minutes.   |  |  |
| I can solve a problem involving timed events, converting from one unit to another.                                 |  |  |

Measurement | Cooking Times

|  |  |  |
|--|--|--|
| I can solve problems involving converting between times written as hours and minutes and times written in minutes. |  |  |
| I can convert times given in minutes into hours and minutes.   |  |  |
| I can convert times given in hours and minutes into minutes.   |  |  |
| I can solve a problem involving timed events, converting from one unit to another.                                 |  |  |

Measurement | Cooking Times

|  |  |  |
|--|--|--|
| I can solve problems involving converting between times written as hours and minutes and times written in minutes. |  |  |
| I can convert times given in minutes into hours and minutes.   |  |  |
| I can convert times given in hours and minutes into minutes.   |  |  |
| I can solve a problem involving timed events, converting from one unit to another.                                 |  |  |