

For a recap of last weeks learning please watch the [Triangle Rap video](#).

scalene

equilateral

isosceles

Triangles

Tri-angle, tri-angle
Three, three that's the key
Three straight sides
Three given angles
Three, three, that's the key

Equi-lateral, equi-lateral
All the same that's my game
Sides are equal, angles are equal
All the same that's my game

Tri-angle, tri-angle
Three, three that's the key
Three straight sides
Three given angles
Three, three, that's the key

Diagram

CVPS Home Learning

WC: 18.05.20

Please write all answers / questions in your distance/home learning journals. Remember to email your work to your class teacher.

YEAR 5 Mathematics

Click on the lesson
you would like to
complete today.



[LESSON 1](#)

[LESSON 2](#)

[LESSON 3](#)

[LESSON 4](#)

[LESSON 5](#)

[Extra Maths activities](#)

This week we are looking at converting measures of time. There will daily challenges to complete and voluntary extension work.

Lesson 1: To convert between seconds, minutes and hours

- ▶ In this lesson we are revisiting a unit of work on converting measurements. In this lesson we will be looking at time. We will start with a revision of time facts. As the lesson develops, we will hone our skills of converting between seconds, minutes and hours and by the end of this lesson, you will be solving time-related problems on a blank number line whilst also converting units of time.
- ▶ [Click here](#) and complete the pre lesson quiz and follow the instructions on the screen.
- ▶ You will find a copy of the independent task, as referred to in the video, and additional challenges.

DAILY CHALLENGE: Time how long it takes you to complete 20 star jumps. Now calculate how much time it would take if you did this for a full week. Can you give your answer in more than one measurement? (minutes, seconds, hours)



Independent Task

Question 1

The women's marathon started at **13:30**. The first runner crossed the line after **200 minutes**. The last runner crossed the line **54 minutes later**.

- a) At what time did the first runner cross the line?
- b) What time did the race finish?

Question 2

The men's 20 km competitive walk started at **18:30**. The **first** athlete crossed the line at **20:03** and the last athlete was **14 minutes later**.

- a) How long did the first runner take to complete the race?
- b) How long did the last athlete take to complete the race?

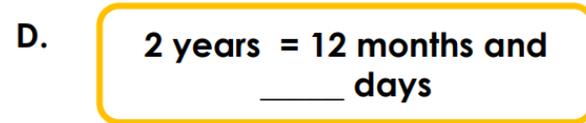
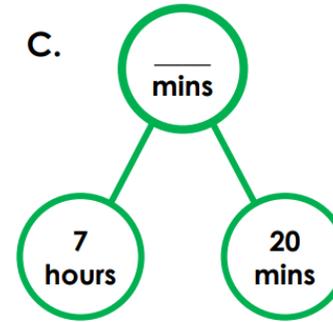
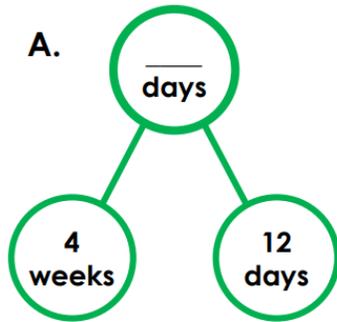
Question 3

The men's 50 km competitive walk started at **11:30 am**. The **first** athlete crossed the line with a time of **3 hours and 40 minutes** and the last athlete crossed the line **59 minutes later**.

- a) At what time did the first athlete cross the line?
- b) How long did the last athlete take to complete the race?
- c) What time did the race finish?

Lesson 1: Challenge

4. Complete the models.



HW

5. Find the mistake in these conversions. Correct them.

	Months	Years and months
A	30 months	3 years 0 months
B	25 months	1 year 13 months
C	46 months	3 years and 10 months

	Minutes	Hours and Minutes
D	100 minutes	1 hour 50 minutes
E	220 minutes	2 hours and 100 minutes
F	430 minutes	6 hours and 30 minutes

Lesson 2: To solve problems involving converting between hours and minutes

- ▶ In lesson 2 of our unit on converting measures, we will be deepening our understanding by solving time problems and representing them using bar models. We will work through several problems together which will increase in difficulty. By the end of this lesson, you will have explored the underlying structures which help us convert units of time and solve problems.
- ▶ [Click here](#) and complete the pre lesson quiz and follow the instructions on the screen.
- ▶ You will find a copy of the independent task, as referred to in the video, and additional challenges.

DAILY CHALLENGE: Time how long you can hold a plank. To perform a plank, assume a press up position and hold it for as long as possible. If you did this for two weeks, how much time would you have spent in a plank position? Can you give your answer in more than one measurement? (minutes, seconds, hours)



Independent Task

Task 1

Use the information to work out who has trained the longest.

Nicola has done **two hours** a **week** for **seven weeks**.

Mark has done **300 minutes** **once a fortnight** for **six weeks**.

Tom has done **30 minutes** a **day** for **24 days**.

Task 2

Draw a bar model to show your understanding of each of the athletes training schedules.

Task 3

How much longer does each athlete need to train so they are all training for the same amount of time?

- Write out and convert the units of time you are dealing with.
- Represent it using a bar model.
- Using multiplication to solve each part.



Lesson 2: Challenge

9. What date or time is it now?



Cliff

I went on holiday on the 4th August at 17:30. It lasted for 200 hours.



Beth

I was born 14th March 03:14. My twin brother was born 1,560 seconds earlier.

I started watching a film at 18:15:00. It lasted for 10,560 seconds.



Huma

I send an email to my friend at 11:16:24. It took 100.5 minutes to arrive.



Randol

Lesson 3: To convert between units of length

- ▶ In lesson 3 of our unit on converting measures, we are going to focus on converting between units of length. We will start with a revision of conversion facts between millimetres, centimetres, metres and kilometres. Using these facts, we will apply these to some real life problems around the Olympics. We will also bring in non-standard units thinking about how many laps different track races at the Olympics are.
- ▶ [Click here](#) and complete the pre lesson quiz and follow the instructions on the screen.
- ▶ You will find a copy of the independent task, as referred to in the video, and additional challenges.

DAILY CHALLENGE: Time how long it takes you to complete 30 squats. Using this information, calculate how long it would take you to complete 300 squats. Can you give your answer in more than one measurement? (minutes, seconds, hours)



Independent Task - Complete the table

A 5000 metre race took place.

The runner divided each section of the race into 7 stages.

Complete the table with the distances run, laps run and distances to go.

1 lap = 400 metres

0.5 laps = 200 metres

5000 metres = 5 km

5 km = 12.5 laps

Stage of the race	Distance run in kilometres	Distance run in metres	Laps run	Laps to go	Distance to go in metres	Distance to go in kilometres
Stage 1	0 km	0 m	0	12.5 laps	5000 m	5 km
Stage 2				10		
Stage 3					2200 m	
Stage 4	3 km					
Stage 5				4		
Stage 6						0.8 km
Stage 7					100 m	

Independent Task - Complete the table

Stage of the race	Distance run in kilometres	Distance run in metres	Laps run	Laps to go	Distance to go in metres	Distance to go in kilometres
Stage 1	0 km	0 m	0	12.5 laps	5000 m	5 km
Stage 2				10		
Stage 3					2200 m	
Stage 4	3 km					
Stage 5				4		
Stage 6						0.8 km
Stage 7					100 m	

Lesson 3: Challenge

1. Mary wants to book a holiday in May. She needs to be back at home for work by the 27th May at 08:30 at the latest. Investigate which holidays she could book. Which is the longest holiday she can book?

Destination	Departure Time	Duration
Italy	9 th May 13:50	17.5 days
Turkey	10 th May 09:45	200 hours
Greece	9 th May 20:45	2 $\frac{1}{2}$ weeks
Morocco	11 th May 11:35	480 hours
Spain	13 th May 02:50	21 days 8 hours
France	19 th May 21:00	175 hours



Her boss changes his mind and says that she can come back to work a week later. Which is the longest holiday she can go for now?

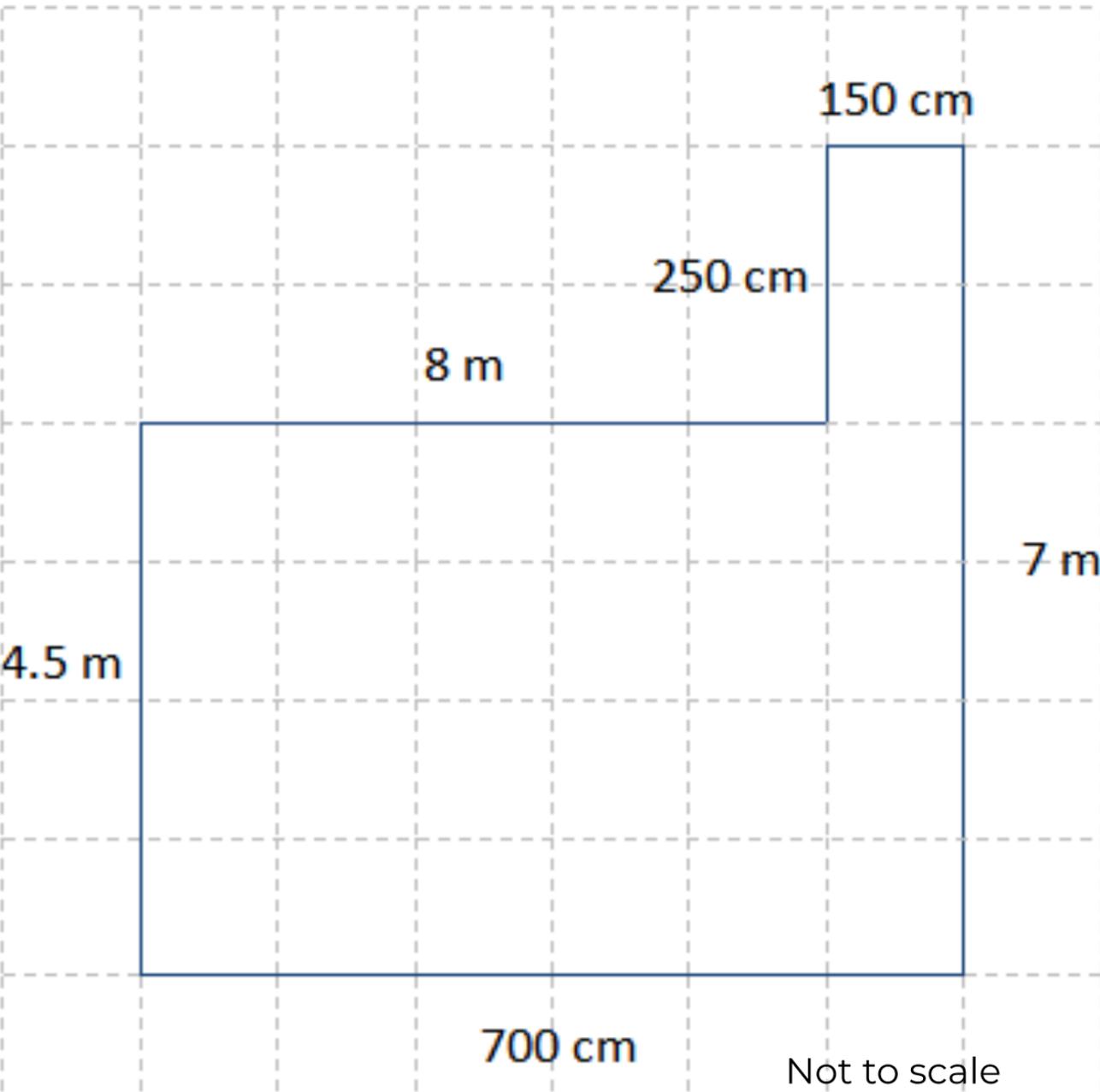
Lesson 4: To apply length conversions to problems

- ▶ In the fourth lesson of this unit, we will continue to look at length. We will apply everything we have learnt about length so far and apply it to some example of real-life problems. By the end of this lesson, you will be able to convert different units of length so that you can spot errors and solve logistical problems.
- ▶ [Click here](#) and complete the pre lesson quiz and follow the instructions on the screen.
- ▶ You will find a copy of the independent task, as referred to in the video, and additional challenges.

DAILY CHALLENGE: Time how long it takes you to complete 20 push ups. Using this information, calculate how long it would take you if you did this every day for the month of May. Can you give your answer in more than one measurement? (minutes, seconds, hours)



Athlete bathroom



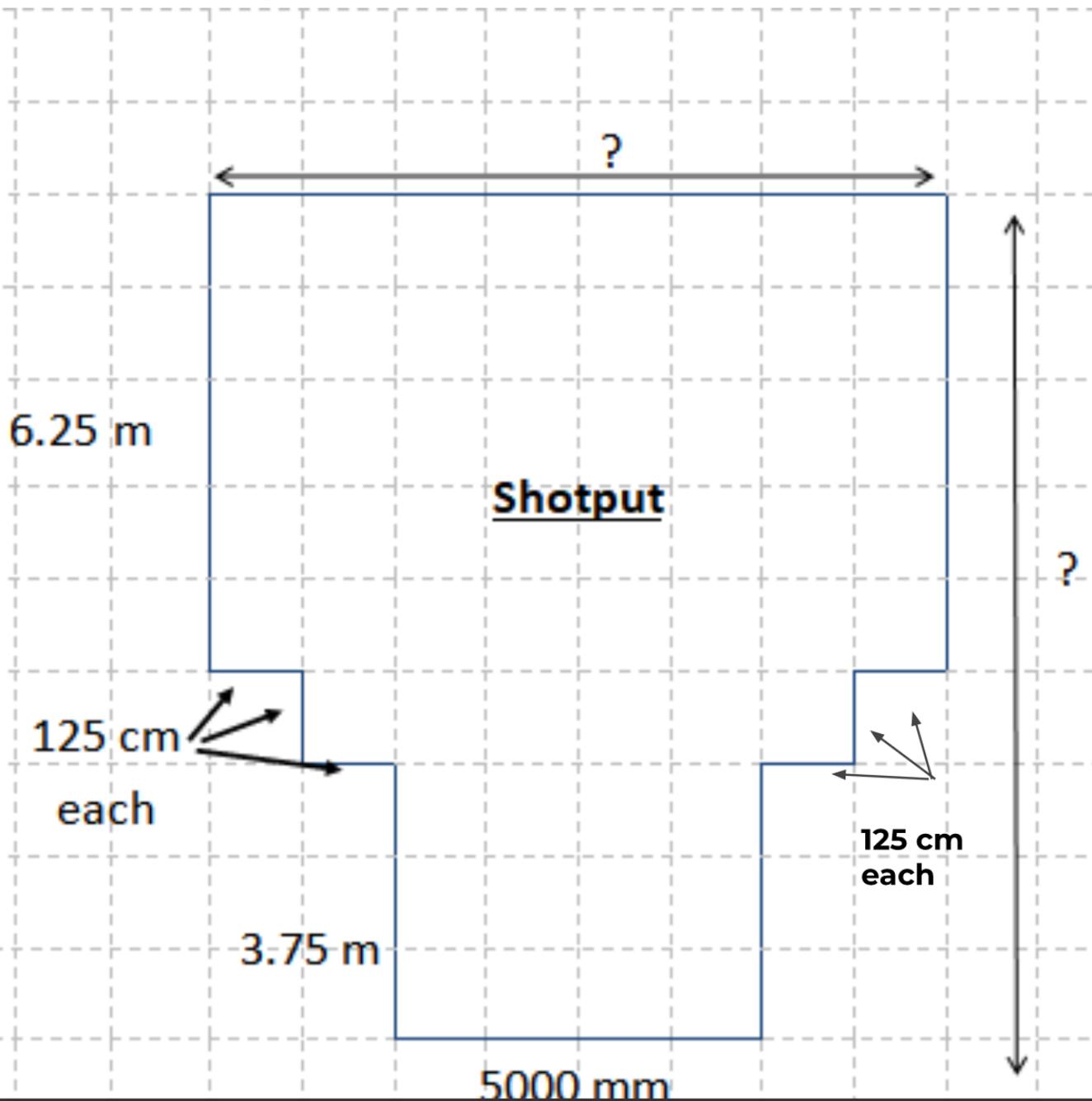
Independent Task - Task 1 of 2

1. Convert each measurement to the same unit
2. Find your missing quantity
3. Find any mistakes in the plans

cent means 100 in

Milli means 1000 in





1. Convert each measurement to the same unit
2. Find your missing quantity
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Lesson 4 - Challenge

2. Explore and discuss the statements below.



Brad

By your 10th birthday, you will always be 3,650 days old.



Mae

6 months is 180 days.



Sue

I am 12 years old but I have only had 3 birthdays.

Who do you agree or disagree with? Explain why.



Lesson 5: To find the perimeter and convert units of measurements

- ▶ In lesson 5 of our unit on converting measurements, we will be combining our knowledge of perimeter and converting units to find the perimeter of rectilinear shapes.
- ▶ [Click here](#) and complete the pre lesson quiz and follow the instructions on the screen.
- ▶ You will find a copy of the independent task, as referred to in the video, and additional challenges.

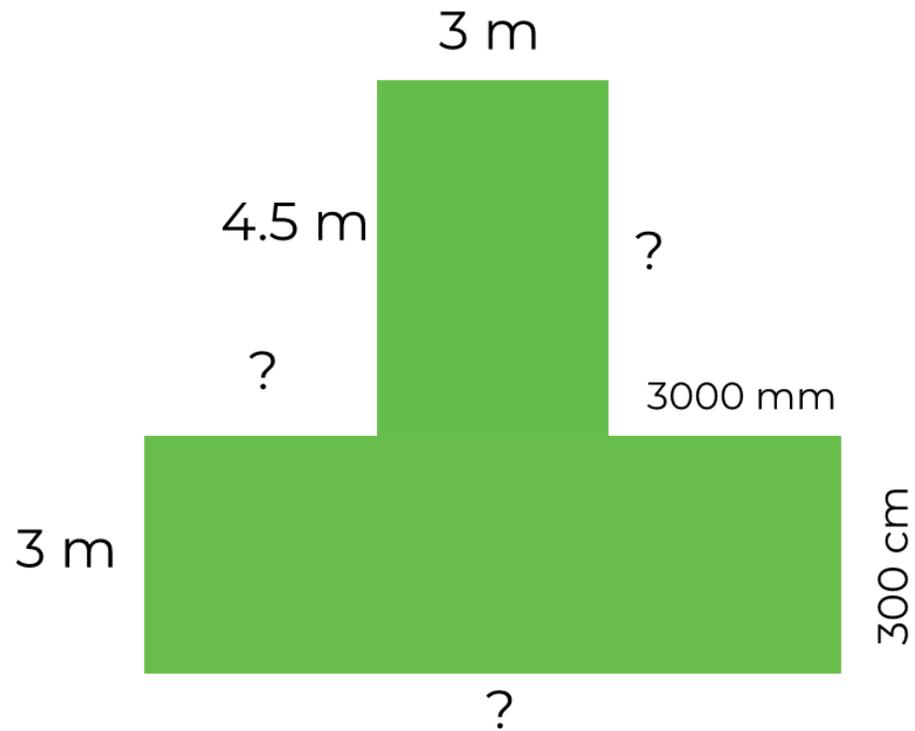
DAILY CHALLENGE: Time how long it takes you to complete 30 mountain climbers. Using this information, calculate how long it would take if you did this every day for the year of 2021. Can you give your answer in more than one measurement? (minutes, seconds, hours, weeks)



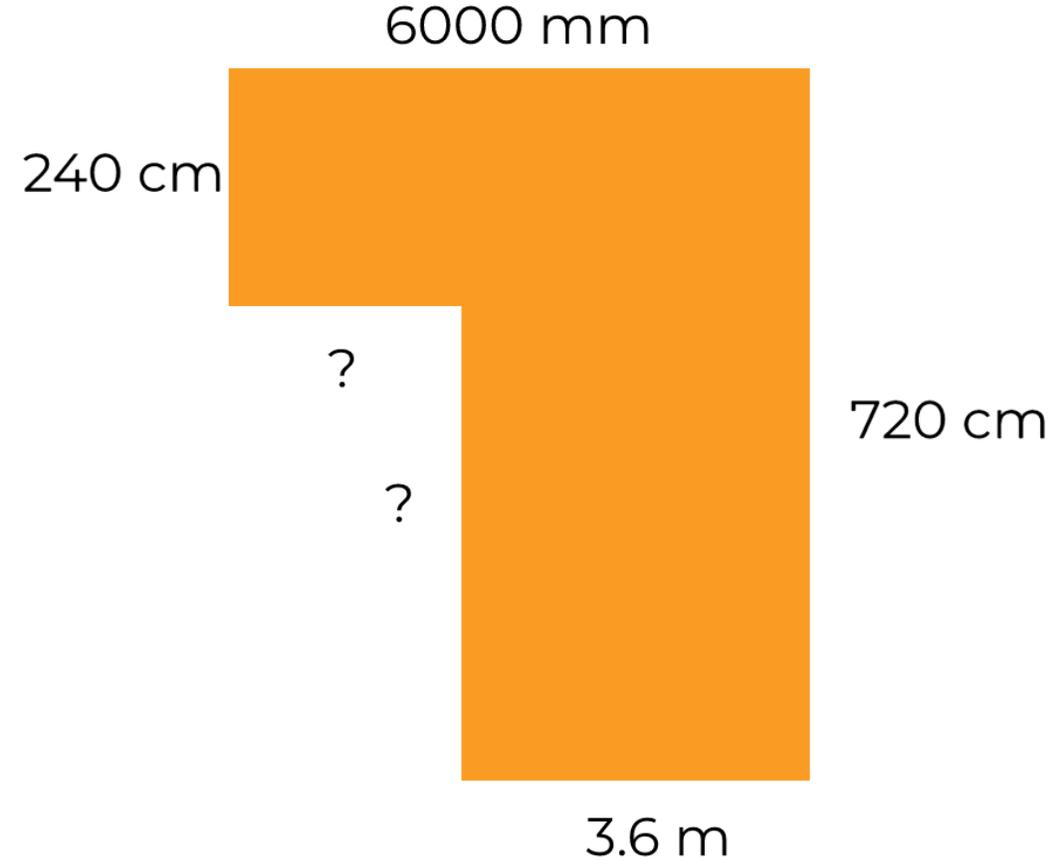
Independent Task

1. Convert each measurement to the same unit
2. Find your missing quantity
3. Find your perimeter

Task 1



Task 2

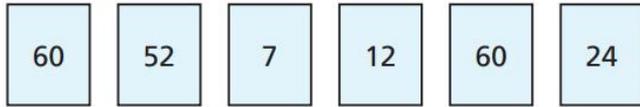


Do Year 5 want some extra maths activities
this week?



The following slides include some optional
extra activities.

1 Use the numbers to complete the statements.



- a) There are days in a week.
- b) There are hours in a day.
- c) There are minutes in an hour.
- d) There are weeks in a year.
- e) There are months in a year.
- f) There are seconds in a minute.

2 Tommy and Kim are completing the statement.

There are days in a year.



The answer is 365

Tommy

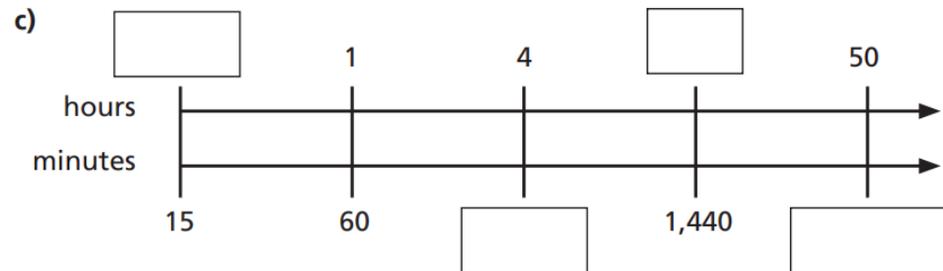
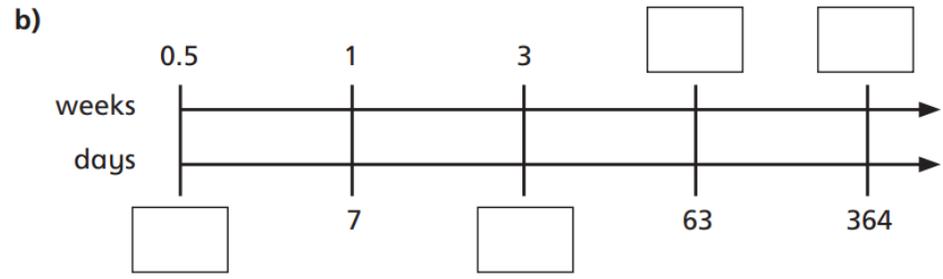
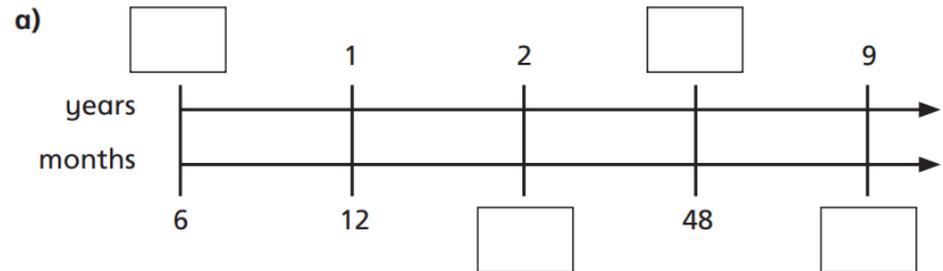
The answer is 366



Kim

Who do you agree with?

3 Fill in the boxes to complete the conversions.

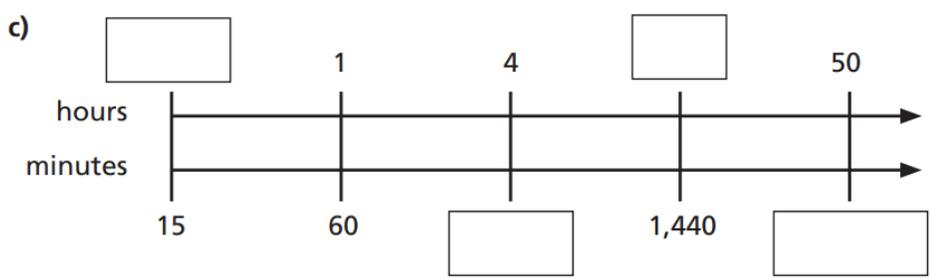
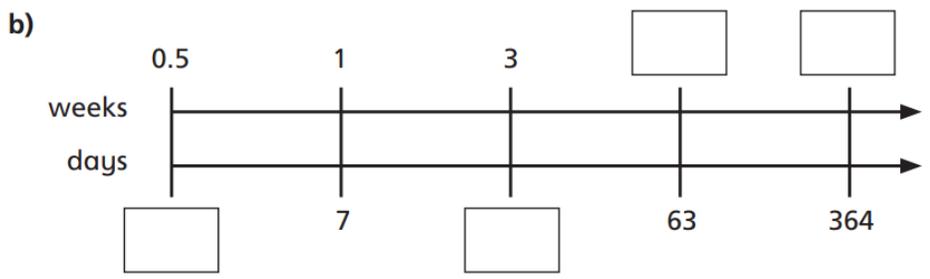
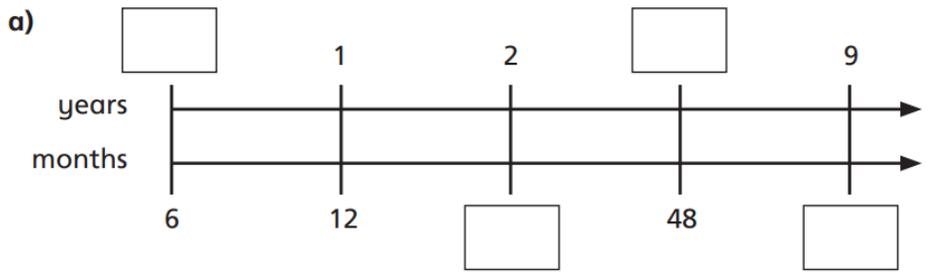


4 Complete the conversions.

- a) 6 weeks = days
- b) 7 years = months
- c) 5 minutes = seconds
- d) 3 days = hours
- e) weeks = 98 days
- f) minutes = 9 hours
- g) hours = 2.5 days
- h) 18 months = years
- i) $\frac{1}{2}$ an hour = minutes
- j) seconds = $\frac{3}{4}$ of a minute

3

Fill in the boxes to complete the conversions.



4

Complete the conversions.

- a) 6 weeks = days
- b) 7 years = months
- c) 5 minutes = seconds
- d) 3 days = hours
- e) weeks = 98 days
- f) minutes = 9 hours
- g) hours = 2.5 days
- h) 18 months = years
- i) $\frac{1}{2}$ an hour = minutes
- j) seconds = $\frac{3}{4}$ of a minute

5

Alex and Jack are converting 52 days into weeks.

Who is correct?

Talk about it with a partner.

6

Ron and Eva have known each other for 103 days. For how many weeks and days have they known each other?

7

Amir and Annie ran a race. Amir ran the race in 3 minutes and 14 seconds. Annie ran the race in 187 seconds. Who was faster? Show your workings.

8

Dora's birthday is on 17 August.

- a) How many hours is it until Dora's birthday?
- b) How many minutes is it until Dora's birthday?
- c) How many seconds is it until Dora's birthday?

9

Work out how old you are in days, hours and minutes.

Measuring time – time relationships

Connect these time facts:

1 minute	24-hours	1 year	10 years
1 hour	365 days	1 fortnight	100 years
1 day	60 seconds	1 decade	12 months
1 year	60 minutes	1 century	14 days

1 How many minutes are there in the following hours?

- a 2 hours = minutes b $\frac{1}{4}$ hour = minutes
- c $\frac{1}{2}$ hour = minutes d $\frac{3}{4}$ hour = minutes
- e 4 hours = minutes f 6 hours = minutes

2 How many seconds are there in the following times?

- a 2 minutes = seconds b 5 minutes = seconds
- c 1 hour = seconds d $\frac{1}{2}$ hour = seconds
- e $\frac{1}{2}$ minute = seconds f $\frac{1}{4}$ hour = seconds

I need to remember to change hours to minutes first. Then I can convert to seconds.



THINK

3 Use the information in the top box to work out these time facts:

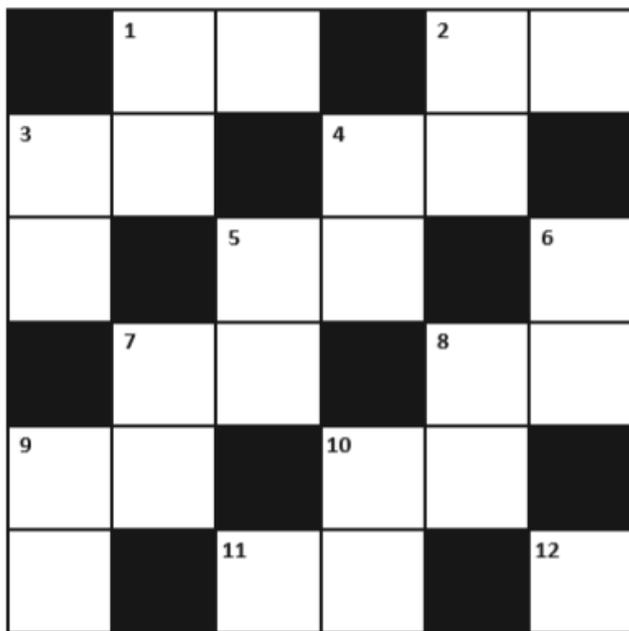
- a 1 decade = months b 1 century = years
- c 2 fortnights = days d $\frac{1}{2}$ century = years
- e 1 week = hours f 2 years = days

4 What time unit would you use to measure each of the following?

- Time to hard boil an egg _____
- One millennium _____
- One leap year _____
- Length of a football match _____



Use what you know about time relationships to complete this cross number puzzle. You may use a calculator.



Across

- years in half a century
- minutes in $\frac{1}{4}$ of an hour
- minutes in 1 hour + 20 minutes
- hours in 1 day
- days in April
- hours in 2 days plus 1 hour
- hours in half a day
- minutes in $1\frac{1}{4}$ hours
- minutes in $\frac{2}{3}$ of an hour
- hours in 4 days and 2 hours
- your age minus 4

Down

- years in 5 decades
- days in a fortnight
- hours in $\frac{1}{2}$ a week
- seconds in $\frac{1}{3}$ of a minute
- days in September plus 9 days of October
- hours in 3 days
- minutes in $\frac{3}{4}$ hour
- seconds in $\frac{1}{6}$ of a minute
- months in 6 years
- hours in 2 days





Getting ready

Last weekend, Akhil and three of his friends went on a camping trip. Each person brought different snacks. Each person had different travel times. Each person had a preferred nickname.



What to do

Read the clues in order to determine each person's nickname, the amount of time that it took each to arrive, and the snacks each person brought.

- The four nicknames are: Bug, Hank, Tops and Haz (the four friends' names are written in the table).
- The four snacks are: chocolate, lollies, soft drink and chips.
- The four travel times are: 15 minutes, 10 minutes, 20 minutes and 5 minutes.

Clues

1. Houman brought the lollies and had the longest drive. His drive was 20 minutes.
2. Akhil, whose nickname is Bug, did not bring soft drink or chocolate.
3. Sean arrived before the person who brought the lollies and after the one who brought the chocolate.
4. Dan only needed to drive for five minutes. His was the shortest drive.
5. The order of arrival is: the one who brought chocolate, the one whose nickname is Tops, Akhil, and the person whose nickname is Haz.

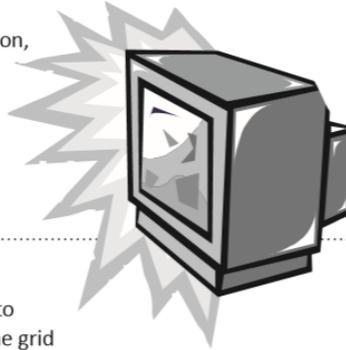
Name	Nickname	Time	Snack
Akhil			
Houman			
Sean			
Dan			

What's on the box?

solve



Five friends like five different TV shows: a cartoon, a crime show, a reality show, football and a sitcom. They all screen on different channels (BBC 2, Channel 5, Sky 1, BBC 1 and Channel 4) and on different nights of the week. Your job is to match the friend with their favourite show.



Read the clues below and use the information to eliminate possibilities. Show your choices on the grid below. You may want to use the grid on the following page to help you arrange your thoughts.

1. Luke's favourite show airs on the weekend. He doesn't watch crime shows and thinks sitcoms are a waste of time.
2. The sitcom screens on Tuesday evening on Channel 4.
3. The cartoon is on BBC 1.
4. Hung's show is on the highest numbered BBC channel on the first day of the school week. He can't stand reality TV.
5. No one's favourite show is on Sunday or Friday.
6. Macey hates sports. Her favourite show is Hung's least favourite show and screens 2 days after Jamie's.
7. The crime show airs on BBC 2.
8. Britt's favourite show screens on Wednesdays on BBC 1.
9. Jamie's show screens on Channel 4, one day before Britt's favourite show.
10. The football screens on Saturday on Channel 5.

Name	Show	Night	Channel
Luke			
Macey			
Jamie			
Hung			
Britt			

Puzzle grid
on next slide

What's on the box? solve

Puzzle grid

	Luke	Macey	Jamie	Hung	Britt
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					
Saturday					
Sunday					
Sport					
Reality					
Crime					
Cartoon					
Sitcom					
BBC 2					
Channel 5					
Sky 1					
BBC 1					
Channel 4					