

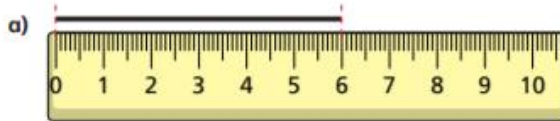
# Year 5, Week 12, Lesson 1



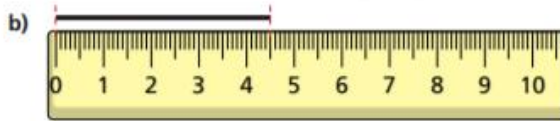
## Metric units

1 How long is each line?

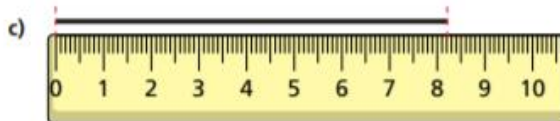
Give your answer in both centimetres and millimetres.



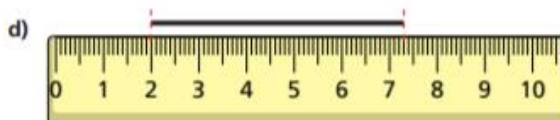
cm       mm



cm       mm



cm       mm



cm       mm

2 Complete the conversion.

1 cm =  mm

3 Dexter is converting units of measure.



If I know how many millimetres are in 1 cm, and how many centimetres are in 1 m, then I can work out how many millimetres are in 1 m.

Complete Dexter's workings to show that he is correct.

1 m =  cm  
1 cm =  mm  
so, 1 m =  mm

What other conversions could you work out using Dexter's method?

4 Complete the conversions.

a) 15 cm =  mm

e)  cm = 0.2 m

b) 12 m =  cm

f) 4.65 m =  cm

c) 16.5 m =  cm

g) 52,000 mm =  cm

d)  mm = 165 cm

h) 52,000 mm =  m

- 5 Mo and Rosie are measuring the length of the playground.



I'm going to measure it in metres.

Mo

Rosie

I'm going to measure it in centimetres.



- a) Whose unit of measure is more appropriate? \_\_\_\_\_

Explain your answer.

- b) Rosie has measured the length of the playground as 563 cm.

What answer will Mo get in metres?

 m

- 6 Eva and Amir are measuring the length of a paper clip.



I'm going to measure it in millimetres.

Eva

Amir

I'm going to measure it in centimetres.



- a) Whose unit of measure is more appropriate? \_\_\_\_\_

Explain your answer.

- b) Amir has measured the length of the paper clip as 0.8 cm.

What answer will Eva get in millimetres?

 mm

- 7 The table shows the heights of four sunflowers.

Sunflower	A	B	C	D
Height	0.86 m	91 cm	640 mm	72 cm

Put the sunflowers in order, starting with the shortest.

---

- 8 The depth of a plank is 15 mm.

12 of the planks are stacked on top of each other.

What is the depth of the stack of planks?

Give your answer in centimetres.


 cm

- 9 Dexter is 146 cm tall.

Annie is 0.27 m shorter than Dexter.

How tall is Annie?

Give your answer in metres.

 m

- 10 The thickness of a 20p coin is 2 mm.

Tommy stacks £4 worth of 20p coins on top of each other.

How tall is the stack of coins?

Give your answer in centimetres.


 cm

# Year 5, Week 12, Lesson 2

## Imperial units



1

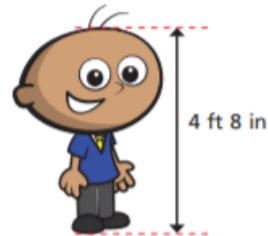
1 inch is approximately equal to 2.5 cm  
1 inch  $\approx$  2.5 cm

Use this fact to complete the conversions.

- |   |  |
|---|--|
| a) 2 inches $\approx$ <input type="text"/> cm   | e) <input type="text"/> inches $\approx$ 7.5 cm  |
| b) 4 inches $\approx$ <input type="text"/> cm   | f) 25 cm $\approx$ <input type="text"/> inches   |
| c) 5 inches $\approx$ <input type="text"/> cm   | g) <input type="text"/> inches $\approx$ 22.5 cm |
| d) 0.5 inches $\approx$ <input type="text"/> cm | h) 1 m $\approx$ <input type="text"/> inches     |

2

There are 12 inches in 1 foot.  
Tommy is 4 feet 8 inches tall.



a) What is Tommy's height in inches?

inches

b) Approximately, how tall is Tommy in centimetres?

cm

3

1 kilogram is approximately equal to 2.2 pounds  
1 kg  $\approx$  2.2 lb

Use this fact to complete the conversions.

- |   |   |
|---|---|
| a) 2 kg $\approx$ <input type="text"/> lb   | e) <input type="text"/> kg $\approx$ 22 lb    |
| b) 4 kg $\approx$ <input type="text"/> lb   | f) 24.2 lbs $\approx$ <input type="text"/> kg |
| c) 5 kg $\approx$ <input type="text"/> lb   | g) <input type="text"/> kg $\approx$ 220 lb   |
| d) 0.5 kg $\approx$ <input type="text"/> lb | h) 2,500 g $\approx$ <input type="text"/> lb  |

4

A dog weighs 25 kg.



a) Approximately, what is the weight of the dog in pounds?

lb

b) There are 14 pounds in a stone.

Approximately, what is the weight of the dog in stones and pounds?

stone  lb

5

1 pint is approximately equal to 568 millilitres  
1 pint ≈ 568 ml

Use this fact to complete the conversions.

- a) 2 pints ≈  ml
- b) 4 pints ≈  ml
- c) 5 pints ≈  ml
- d) 0.5 pints ≈  ml
- e)  l ≈ 5 pints
- f) 56.8 ml ≈  pints
- g)  pints ≈ 56.8 l
- h) 20 pints ≈  l

6

The capacity of a barrel is 11.36 l.

- a) Approximately, what is the capacity of the barrel in pints?



pints

- b) There are 8 pints in a gallon.

Approximately, what is the capacity of the barrel in gallons?

gallons



7

A set of scales is balanced.



What is the weight of the box? Give your answer in pounds.

lb

8

A milkman delivers 50 pints of milk a day.

How many litres of milk does he deliver in a full week?

l

9

The average weight of a newborn baby is 7.5 lb.

Dora weighed 3.5 kg when she was born.

Did Dora weigh more or less than the average weight when she was born? \_\_\_\_\_

Approximately, how much more or less than the average did she weigh?

lb



# Year 5, Week 12, Lesson 3



## Converting units of time

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

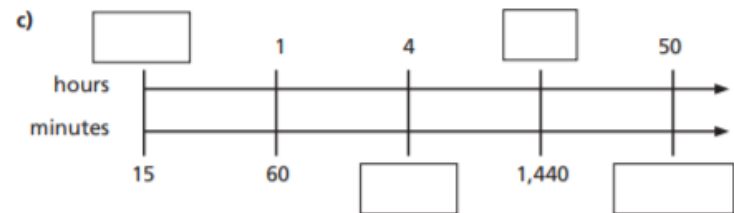
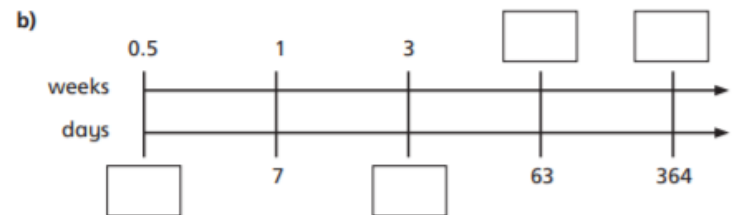
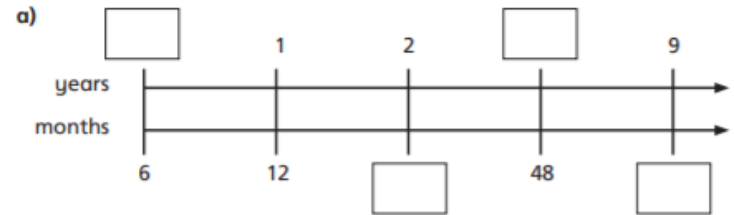
Kim

Who do you agree with? \_\_\_\_\_

Talk about it with a partner.



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      i)  $\frac{1}{2}$  an hour =  minutes
- h) 18 months =  years      j)  seconds =  $\frac{3}{4}$  of a minute

- 5 Alex and Jack are converting 52 days into weeks.

Alex: I can't do it because 52 is not a multiple of 7

Jack: I can convert it into weeks and days.

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?

weeks and  days

- 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.



It's currently 6 pm on 14 August.



- a) How many hours is it until Dora's birthday?

hours

- b) How many minutes is it until Dora's birthday?

minutes

- c) How many seconds is it until Dora's birthday?

seconds

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

days  hours  minutes



# Year 5, Week 12, Lesson 4

## Timetables



1 Here is a bus timetable.

	Bus A	Bus B	Bus C
Green Park Road	08:45	09:00	09:15
Forrest Drive	09:05	09:20	09:35
Summerville Street	09:22	09:37	09:52
Penny Bridge	09:40	09:55	

- a) What time does Bus A arrive at Green Park Road?
- b) What time does Bus B arrive at Summerville Street?
- c) What time does Bus C arrive at Forrest Drive?
- d) Each bus takes the same amount of time to get from Green Park Road to Penny Bridge.  
What time does Bus C arrive at Penny Bridge?
- e) Eva needs to be at Summerville Street by 9:35  
Which bus does she need to get from Green Park Road?

2 Here is an extract from a TV guide.

17:00	17:30	18:00	18:30	19:00	19:30	20:00
News	Catch It!	Giant George	Wilson Street		News	Detective Files

- a) At what times is the news on?  and
- b) What time does *Detective Files* start?
- c) How long is *Wilson Street* on for? \_\_\_\_\_
- d) Eva is working out how long *Catch It!* is on for.

Here are her workings.



*Catch It!* is on for 85 minutes.

$$\begin{array}{r}
 79 \\
 18:10 \\
 - 17:15 \\
 \hline
 00:85
 \end{array}$$

Do you agree with Eva? \_\_\_\_\_

Talk about it with a partner.

e)




The news is on for half an hour in total.

Do you agree with Ron? \_\_\_\_\_

Explain your answer.

- 3 Here is part of a train timetable.



St Pancras	06:25	06:40	06:55	07:05	07:22
Stratford	06:32	06:47	07:02	07:12	07:29
Ebbsfleet	06:43	06:59	07:15	07:23	07:40
Ashford	—	07:19	—	07:42	—
Gravesend	06:47	—	07:18	—	07:43

- a) How many of the trains go all the way from St Pancras to Gravesend?
- b) How long does the 06:40 take to get from St Pancras to Ashford?

minutes

- c) Which train takes the least amount of time to get from St Pancras to Gravesend?

\_\_\_\_\_

- 4 In this timetable, all the trains stop at every station and the time taken between stations does not change.

Fill in the missing information.



Aberford	08:30	11:00	13:10	
Cartown		11:22		
Donville			13:47	
Highborough			14:01	
Southland	09:57			16:03

- 5 Draw a timetable of your school day.

- a) How many minutes do you spend at school?

minutes

- b) How many seconds do you have for your lunch break?

seconds

- c) Write your own questions for a partner to answer about your timetable.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- d) Work with a partner to create your timetable for the rest of the week.

Work out how many hours, minutes and days you spend on each subject.

