



Aim High... Fly High...

Hawks: Maths

1st June – 21st July

Week 7 – 13th July: Units

<https://whiterosemaths.com/homelearning/year-5/>

The lessons on White Rose for this week are the correct ones – week 12 (w/c 13th July).

Our focus this half-term is mostly revising and consolidating the maths concepts you need to be secure in before starting Year 6 in September. Each week you will get 4 tasks and a Friday problem solving challenge.

The White Rose activity sheets are no longer free and available to access online (but the videos still are). Our school does however have a subscription to the White Rose website and so you will find the corresponding activity sheets in this document. **BBC Bitesize has associated material for each lesson too** (<https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-and-p6-lessons>).

The activity worksheets and answers are also available on Starz.

This week, I would like you to complete these tasks:

Lesson 1 – **Metric units**

Lesson 2 – **Imperial units**

Lesson 3 – **Converting units of time**

Lesson 4 – **Timetables**

Lesson 5 - **Friday Challenge [week 10 – 3rd July]** <https://www.bbc.co.uk/bitesize/articles/zknp7yc>

White Rose resources for these activities can be found on the following pages.

Lesson 1 – Metric units – White Rose Resources

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
- b) 12 m = cm
- c) 16.5 m = cm
- d) mm = 165 cm
- e) cm = 0.2 m
- f) 4.65 m = cm
- g) 52,000 mm = cm
- h) 52,000 mm = m

Metric units

1 How long is each line?
 Give your answer in both centimetres and millimetres.

a) cm mm

b) cm mm

c) cm mm

d) cm mm

2 Complete the conversion.
 1 cm = mm

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



I'm going to measure it in metres.

Mo



I'm going to measure it in centimetres.

Rosie

- 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



I'm going to measure it in centimetres.

Amir

- 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

Imperial units

1

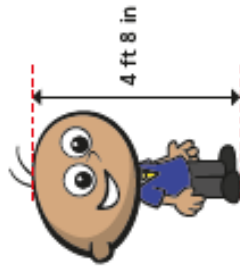
1 inch is approximately equal to 2.5 cm
1 inch = 2.5 cm

Use this fact to complete the conversions.

- a) 2 inches = cm
- b) 4 inches = cm
- c) 5 inches = cm
- d) 0.5 inches = cm
- e) inches = 7.5 cm
- f) 25 cm = inches
- g) inches = 22.5 cm
- h) 1 m = 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 = 2.2 lb

Use this fact to complete the conversions.

- a) 2 kg = lb
- b) 4 kg = lb
- c) 5 kg = lb
- d) 0.5 kg = lb
- e) kg = 22 lb
- f) 24.2 lbs = kg
- g) kg = 220 lb
- h) 2,500 g = 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

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

5

Use this fact to complete the conversions.

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

Lesson 3 – Converting units of time – White Rose Resources

3 Fill in the boxes to complete the conversions.

a) years = months

1 2 9

6 12 48

b) weeks = days

0.5 1 3 364

7 63

c) hours = minutes

1 4 50

15 60 1,440

4 Complete the conversions.

a) 6 weeks = days d) 3 days = hours

b) 7 years = months e) weeks = 98 days

c) 5 minutes = seconds f) minutes = 9 hours

Converting units of time

1 Use the numbers to complete the statements.

- 60 52 7 12 60 24

- 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.



Tommy

The answer is 365



Kim

The answer is 366

Who do you agree with? _____
Talk about it with a partner.

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.



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

Alex



I can convert it into weeks and days.

Jack

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

Lesson 4 – Timetables – White Rose Resources

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!	Grant 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.

$$\begin{array}{r}
 79 \\
 18:10 \\
 - 17:15 \\
 \hline
 0:85
 \end{array}$$



Do you agree with Eva?
Talk about it with a partner.



Do you agree with Ron?
Explain your answer.

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?

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.