

Wednesday 6<sup>th</sup> May 2020

Y4 Maths

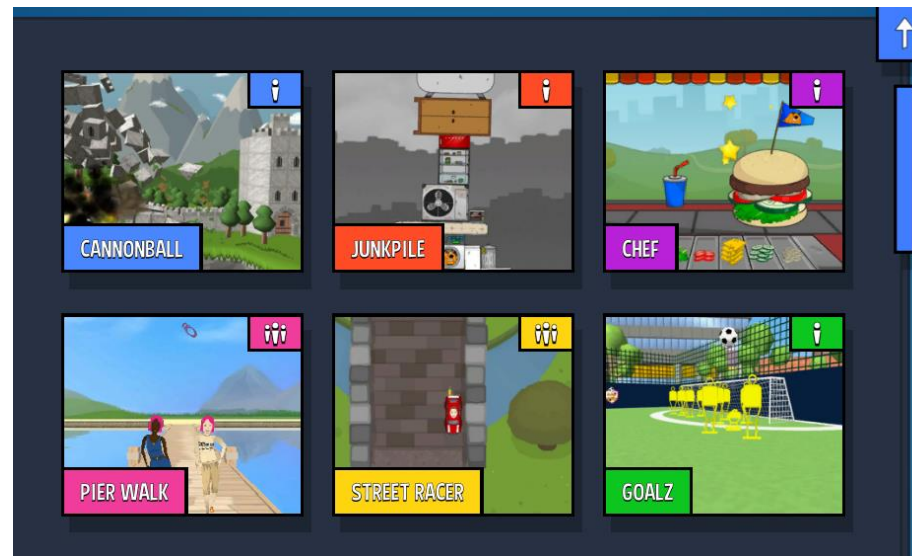
Good morning Y4s

If you managed the mastery and problem solving questions yesterday, you could try the Greater Depth questions below (answers to Mastery and Greater depth are on the last page) or you can go to

<https://whiterosemaths.com/homelearning/year-4> and look for **Summer Term – Week 3 - Lesson 3.**

Watch the video called '**Divide 2 digit by 1 digit number**' and then do the activity that I have copied below.

When you have completed the activity, please go to the **Sumdog** website. If you haven't been on yet, find the email with your login details that your parents received last week and have a go. I have set a couple of maths challenges for you. Have fun. Miss Bamber



Greater depth questions

## Activities for pupils working at greater depth:

Fill in the missing boxes so that the amounts are in order from smallest to greatest:

50cms

1.2  
metres

100  
metres

Along the coast there are 3 lighthouses.

The first light shines on for 3 seconds and then off for 3 seconds.

The second light shines on for 4 seconds and then off for 4 seconds.

The third shines on for 5 seconds and then off for 5 seconds.

They have all just come on at the same time. When will be the next time all three lights will be off together?



David and Claire run for a total of 60Km per week.

David runs three times as much as Claire.

How far did each one run?

On average, David runs 1Km in 4 minutes and, on average, Claire runs 1Km in 5 minutes. What is the difference in the amount of time each spends on the road each week?

Add amounts of weight to the empty spaces so that all horizontal and vertical lines add up the same amount.

1.4Km		
	400m	1Km
___ m		1½Km

Now create a table like this for:

- Mass, and
- Time

and let your friends solve it.

Henry says that there are 5000 minutes between midday on Good Friday and midday on Easter Monday.

Is he right?

If not, how far out is he?



## Divide 2-digits by 1-digit (2)

- 1 Whitney is working out  $49 \div 4$  using a place value chart.

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1

1

- a) Talk about Whitney's method with a partner.  
b) Why is there one counter left over?

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- c) Complete the division.

$$49 \div 4 = \square$$

- d) Use place value counters to complete the divisions.

$$50 \div 4 = \square \qquad 51 \div 4 = \square$$

What do you notice?

- 2 Complete the divisions.

a)  $47 \div 3 = \square$

e)  $49 \div 6 = \square$

b)  $26 \div 5 = \square$

f)  $47 \div 4 = \square$

c)  $89 \div 4 = \square$

g)  $74 \div 3 = \square$

d)  $32 \div 5 = \square$

h)  $81 \div 7 = \square$

- 3 Complete the divisions.

a)  $36 \div 4 = \square$

c)  $45 \div 3 = \square$

$37 \div 4 = \square$

$46 \div 3 = \square$

$38 \div 4 = \square$

$47 \div 3 = \square$

$39 \div 4 = \square$

$48 \div 3 = \square$

$40 \div 4 = \square$

$49 \div 3 = \square$

b)  $70 \div 5 = \square$

d)  $92 \div 4 = \square$

$71 \div 5 = \square$

$91 \div 4 = \square$

$72 \div 5 = \square$

$90 \div 4 = \square$

$73 \div 5 = \square$

$89 \div 4 = \square$

$74 \div 5 = \square$

$88 \div 4 = \square$

- 4 Dora has been working out some divisions.

$$\begin{aligned}72 \div 4 &= 18 \\73 \div 4 &= 18 \text{ r}1 \\74 \div 4 &= 18 \text{ r}2 \\75 \div 4 &= 18 \text{ r}3\end{aligned}$$



I know without working it out that  $76 \div 4$  must be 18 r4

- a) Why does Dora think this?

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- b) Explain why Dora is wrong.

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- 5 Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.



- a) Complete the division to work it out.

$$\square \div \square = \square \text{ r} \square$$

- b) What does the remainder represent?

Talk about it with a partner.

- c) Complete the sentence.

Annie can fill  boxes with  eggs left over.

- 6 Jack has these bulbs.

A yellow daffodil flower with a green stem and leaves.	Daffodils 49
A red tulip flower with a green stem and leaves.	Tulips 63
A purple crocus flower with a green stem and leaves.	Crocuses 98

Equal numbers of each bulb are put into 4 tubs.

How many of each bulb will be in each tub?

Daffodils  Tulips  Crocuses

How many of each bulb will be left over?

Daffodils  Tulips  Crocuses

How many tubs could Jack use so that there are no bulbs left over?

## Mastery and Greater Depth Answers

### Page 168 Mastering this Objective

#### Training Routine

Hannah is a 800 metres runner. During a typical week she will have run 5 races of 800 metres and she will have trained by running 5 Km per day for 3 days and 10Km per day for 2 days. How many Km will Hannah have run in the week? **39Km**

#### Climbing Stairs

When Jamila has climbed 8 stairs he is 2 metres off the ground. Each step measures the same. How high is each step? **25cm**  
How many steps will he need to climb before he is 5 metres off the ground?  
**20**

#### Toy Box

Joseph puts all his wooden bricks into his toy box. Each brick weighs the same. The toy box weighs 2.5Kg when it is empty. After he has placed 10 bricks in the toy box, the box weighs 7.5Kg. How much does each brick weigh? **500g**

#### Hannah's Training Runs

Which day did she run the fastest? **Saturday**  
How many seconds did she take to run the 800 metres on Friday? **141 seconds**

What is the difference, in seconds, between her time during her fastest run and her slowest run? **50 seconds**

Give a reason as to why Hannah had a very slow run on Wednesday. **She might have been tired, ill, had a big lunch, not at peak physical fitness, she may have been affected by something in her environment e.g. the weather.**

### Page 169 Working at greater depth

Fill in the missing boxes so that the amounts are in order from smallest to greatest:

50 ~~cms~~    1.2m    **E.g. 50m**    100m    **E.g. 250m**

Along the coast there are 3 lighthouses. The first light shines on for 3 seconds and then off for 3 seconds. The second light shines on for 4 seconds and then off for 4 seconds. The third shines on for 5 seconds and then off for 5 seconds. They have all just come on at the same time. When will be the next time all three lights will be off together? **The 6<sup>th</sup> second.**

David and Claire run for a total of 60Km per week. David runs three times as much as Claire. How far does each one run?

**Claire runs 15Km, David runs 45Km.**

On average, David runs 1Km in 4 minutes and, on average, Claire runs 1Km in 5 minutes. What is the difference in the amount of time each spends on the road each week? **David spends 180 minutes on the road, 105 minutes (1 hour 45 minutes) more than Claire, who spends 75 minutes running.**

Add amounts of weight to the empty spaces so that all horizontal and vertical lines add up the same amount. (E.g. all equal 3Km)

1.4Km	<b>1.1Km</b>	<b>500m</b>
<b>1.5Km</b>	500m	1Km
100m	<b>1400m</b>	1½Km

Henry says that there are 5000 minutes between midday on Good Friday and midday on Easter Monday. Is he right? **No, there are 4320 minutes.**

If not, how far out is he? **He is 680 minutes (11hours and 20 minutes) out.**