## Hello Year 3,

Here is your maths home learning for the week.
We will come to the end of our money unit during this week and will be moving on to length and perimeter. Below, you will see links to each lesson video followed by the two-page worksheets in order afterwards.

Some of these questions require you to use a ruler but don't worry if you do not have one at home. Move on to the next question if this is the case.
Your parents have been sent my school email address so please do send over completed work when you get a chance.
Many thanks,
Mr Wheatley

Mon ${ }^{8 t h}$ Feb - Subtract money
https://vimeo.com/498297373
Tues $9^{\text {th }}$ Feb-Give change
https://vimeo.com/499227948
Weds $10^{\text {th }} \mathrm{Feb}$ - Measure length
https://vimeo.com/503131096
Thurs $11^{\text {th }}$ Feb - Measure length recap
https://vimeo.com/504466031
Fri $12^{\text {th }}$ Feb - Equivalent lengths
https://vimeo.com/504467081

## Subtract money

(1) Complete the part-whole models.

b)

2. Tommy has $£ 5$ and 75 p in his pocket.


He puts $£ 2$ and 50 p in his money box.
How much is left in his pocket?


3
Whitney has $£ 4$ and 80p.
She buys this pair of socks.


How much money does Whitney have left?
 and $\qquad$Complete the statements.
a) $£ 8$ and $65 p-£ 5$ and $25 p=f$ $\square$ and $\square$
b) f 8 and $65 \mathrm{p}-\mathrm{f} 5$ and $65 \mathrm{p}=£$ $\square$ and $\qquad$
c) $£ 8$ and $65 \mathrm{p}-\mathrm{f} 8$ and $30 \mathrm{p}=£$ $\square$ and $\qquad$

Amir and Rosie use a number line to subtract $£ 5$ and 75 p from $£ 8$

## Amir's method



## Rosie's method



Amir and Rosie both get $£ 2$ and 25 p as their answer.
(7) Complete the bar models.
a)

| £8 and 99p |  |
| :--- | :--- |
| £8 and 96p |  |

b)

| £9 and 15p |  |
| :--- | :---: |
|  | $62 p$ |

a) Explain each of these methods to a partner.
b) Whose method do you prefer? $\qquad$
Explain why.
(2) Annie buys some crayons.


She pays with this money.


She gets this change.


Has Annie been given the correct amount of change?

Explain your answer.
$\qquad$
$\qquad$
(3) Huan buys a hot chocolate for $£ 2$ and 60 p.

He pays with a $£ 5$ note.
How much change does he get?
Dani buys a milkshake.
She pays with a f5 note.
She gets $£ 2$ and 60 p change.
How much did the milkshake cost?


5 Ms Hall has $£ 9$ to buy breakfast
She gets $£ 4$ and 25 p change.


Which breakfast does Ms Hall buy?
Use a number line to explain your answer.

$\qquad$ for breakfast.
6) A train ticket costs $£ 3$ and 60 p.

A bus ticket costs $£ 2$ and 85 p.
Mr Khan buys a train and a bus ticket.
He pays with a $£ 10$ note
How much change does he get?
$\square$ and $\square$

7 Mrs Dean buys a T-shirt.
She pays with a $£ 10$ note.
She gets four coins in change.


Each coin is different.
a) What is the lowest possible price of the T-shirt?

b) What is the highest possible price of the T-shirt?
 and


## Measure length

What is the length of each line?
a)

b)
$\square$

c)
$\square$
2) Write the length of each line to the nearest millimetre.
a)

b)

c)


3 Use a ruler to draw lines of these lengths.
a) 5 cm

b) 75 mm


## c) 42 mm



How long is the paintbrush?


The paintbrush is $\square$ cm long.

How long is the toy car?


The toy car is $\square$ cm long.
(6)

How tall is the baby giraffe?


The baby giraffe is $\square$ m and $\square$ cm tall.

Tick the most sensible estimate for the height of a classroom door.

```
20 cm
```

2 m

8 Find items in the classroom that are the following lengths.

Write your answers in the table.

| Less than <br> 10 cm long | Between 10 cm <br> and 1 m long | More than <br> 1 m tall |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |

Compare with a partner.

## Measure length (m)

I Look around your classroom.
Choose 10 objects.
a) Estimate which objects are longer than 1 metre and which are shorter than 1 metre.
b) Draw each object in the correct part of the table.

| Longer than 1 metre | Shorter than 1 metre |
| :--- | :--- |
|  |  |
|  |  |

c) Use a metre ruler to measure your objects.

Did you put them in the correct column?
d) Which object is closest to 1 metre long?

2


Do you agree with Ron? $\qquad$ Talk about it with a partner.

Complete the sentences.
a) Dexter is 1 $\qquad$ and 8 $\qquad$ tall.
b) Dani is 1 metre and 21 centimetres tall.

c) Scott is 1 metre and 11 centimetres tall.


3 Class 2 are measuring poster paper for an art lesson.

Nijah puts the paper next to a 2-metre stick.


How long is the poster paper?


4 Measure the longest side of your classroom and complete the sentence.


5


Daddy Bear is 2 metres tall.
Baby Bear is half as tall as Daddy Bear.
a) How tall is Baby Bear?

b) Mummy Bear is taller than Baby Bear, but shorter than Daddy Bear.

How tall could Mummy Bear be?


Compare answers with a partner.
2) Complete the table to show equivalent lengths and continue the pattern.

| cm | m and cm |
| :---: | :---: |
| 310 cm | 3 m and 10 cm |
| 320 cm | m and $\quad \mathrm{cm}$ |
| 330 cm | m and $\quad \mathrm{cm}$ |
| cm | 3 m and 40 cm |
| cm | 3 m and 50 cm |
| cm | m and $\quad \mathrm{cm}$ |
| cm | m and $\quad \mathrm{cm}$ |

(3) Write the missing measurements.



| A | B | C | D |
| :---: | :---: | :---: | :---: |
| 20 cm | 0 m 75 cm 130 cm | 1 m 65 cm |  |

(5) Complete the bar models.
a)

| 160 cm |  |  |
| :---: | :---: | :---: |
| m | cm |  |


b)

d)

6) Complete the sentences.
a) $240 \mathrm{~cm}=\square \mathrm{m}$ and $\square \mathrm{cm}$
b) $319 \mathrm{~cm}=\square \mathrm{m}$ and $\square \mathrm{cm}$
c) $508 \mathrm{~cm}=$ $\square$ m and $\square$ cm
d) 2 m and $15 \mathrm{~cm}=\square \mathrm{cm}$
e) 8 m and $3 \mathrm{~cm}=$ $\square$ cm

7 Here is Huan's sunflower


Dani's sunflower is 2 m and 30 cm .
Tom's sunflower is exactly halfway between Huan's and Dani's.

How tall is Tom's sunflower?
Write your answer in metres and centimetres.
$\square$
m and cm

