

Ysgol Uwchradd Caergybi Mathematics Department Homework Pack

Year 7 Module 2 Foundation

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Name

Class Teacher

Name

Number - 1

$\frac{\dots}{25} \times 100 = \dots\%$

1. Look at the following list of numbers

2 3 4 9 13 16 24 27 42 49

Using the above numbers only

a. List the odd numbers [2]

b. List the even numbers [2]

2. Look at the following list of numbers

113 156 202 387 433 509 810 1029 2831 39,812

Using the above numbers only

a. List the odd numbers [2]

b. List the even numbers [2]

3. List the first 10 multiples (times tables) of

a. 3 [3]

b. 5 [3]

List the common multiples (what numbers are in the 3 and 5 times tables)

c. 3 and 5 [2]

4. List all the factors of

a. 18 [2]

b. 24 [2]

c. 30 [2]

5. Write down the first 10 Square numbers

..... [3]

To improve I need to

Name

Number - 2

$\frac{\dots}{30} \times 100 = \dots\%$

1. Use the BODMAS rules to answer the following

Remember $()^2 \div \times + -$

a. $5 + \underline{4 \times 3} =$ $20 \div 4 + 3 =$ [4]

.....

.....

b. $(5 + 4) \times 3 =$ $15 + \underline{5 \times 10} =$ [4]

.....

.....

c. $12 + \underline{20 \div 4} =$ $17 + 8 \div 2 =$ [4]

.....

.....

d. $\underline{7 \times 4} + \underline{2 \times 10} =$ $\underline{6 \times 4} - \underline{3 \times 5} =$ [6]

.....

.....

2. Calculate the following

a. $7^2 = \dots\dots\dots$

d. $\sqrt{81} = \dots\dots\dots$

b. $8^2 = \dots\dots\dots$

e. $\sqrt{36} = \dots\dots\dots$

c. $5^2 = \dots\dots\dots$

f. $\sqrt{100} = \dots\dots\dots$ [6]

3. Do you remember this from the last homework?

a. Write down all the factors of 32 [2]

b. Write down the first 10 multiples of 7
..... [2]

c. Write down 5 square numbers
..... [2]

To improve I need to

Name

Decimal and Money

$\frac{\dots}{30} \times 100 = \dots\%$

1. Calculate the following [4]

a. 82×10 c. $340 \div 10$

b. 62×100 d. $720 \div 10$

2. Answer the following

a. Write three thousand and fifty in figures [1]

.....

b. Write 15 400 in words [1]

.....

3. Put the following in order of size from **smallest** to **biggest**

a. 6.2 61 6.1 0.61 6
..... [2]

b. 3.4 36 0.3 23 3.5
..... [2]

4. Calculate [8]

$$\begin{array}{r} 1 \ 2. \ 6 \\ + \ 5. \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \ 8. \ 9 \\ + \ 7. \ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \ 7. \ 8 \\ - \ 5. \ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \ 7. \ 4 \\ - \ 6. \ 2 \\ \hline \end{array}$$

5. Round the following [6]

- a. 3.2 to the nearest whole number
- b. 18.7 to the nearest whole number

- c. 51 to the nearest 10 d. 78 to the nearest 10

- e. 212 to the nearest 100 f. 666 to the nearest 100

When answering the following questions show any calculations you needed to make

6. John bought a magazine for £3.95 he paid with £5, how much change did he get?

..... [2]

7. Sian bought 2 packs of smarties at 55p per packet, how much did she spend?



..... [2]

Example you can make 65p using a 50p, 10p and a 5p

8. List the coins you would need to make £1.36 ?

..... [2]

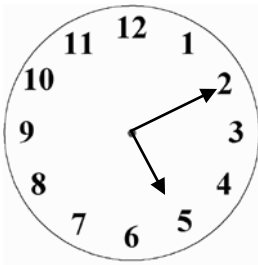
To improve I need to

Name

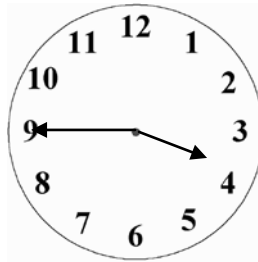
Time

$$\frac{30}{100} \times 100 = \dots\%$$

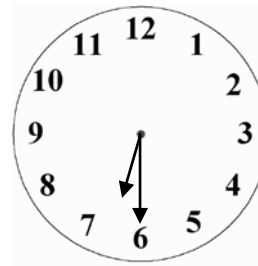
1. Write the following times in figures (numbers) [6]



.....



.....



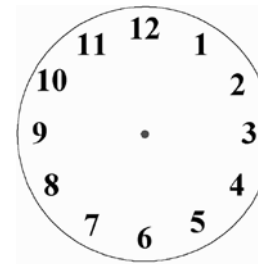
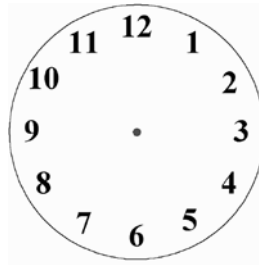
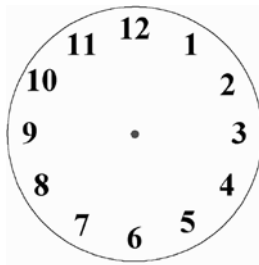
.....

2. Draw these times on the following clocks [6]

a. 3:15

b. 8:40

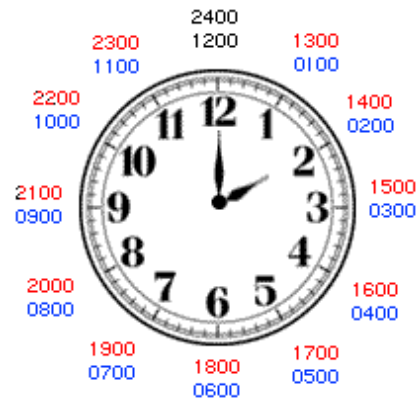
c. 11:55



3. Change the following from 12hour clock to 24hour clock [4]

a. 8:07am

b. 7:15pm



4. Change the following from 24hour clock to 12hour clock [4]

a. 14:16

b. 21:34

5. This is the timetable of a train from Holyhead to Bangor

Holyhead	8:00
Valley	8:06
Rhosneigr	8:10
Ty Croes	8:18
Bodorgan	8:25
Llanfairpwll	8:35
Bangor	8:45

- a. How much time does the bus take to go from [8]
- i. Holyhead to Rhosneigr
 - ii. From Holyhead to Bangor
 - iii. From Valley to Ty Croes
 - iv. Ty Croes to Bangor

6. This is the bus timetable of train from Holyhead to Llangefni

Holyhead Summerhill	0500	....	0600	....	0630	0645	....	0710	....	0745	....	0840
Holyhead, Tesco	....	....	....	....	0637	....	....	....	....	....	....	0847
Trearddur	....	....	0608	....	....	0653	....	0718	....	0749	....	....
Valley Crossroads	0510	....	0616	....	0641	0701	....	0726	....	0755	....	0855
RAF Valley	0519	....	....	....	....	0712	....	0737	....	0801	....	....
Bodedern School	....	....	....	....	....	....	....	....	....	0814	....	....
Bryngwran	....	....	0626	....	0649	0718	....	0743	....	0819	....	0905
Rhostrehwfa	....	....	0639	....	0702	....	....	0756	....	....	....	0918
Bodffordd	....	....	....	....	....	0731	....	....	....	0834	....	....
Llangefni Post Office	0538	0538	0645	0645	0708	0737	0737	0802	0802	0840	0840	0924

- a. How many buses stop at RAF Valley?..... [1]
- b. Which bus from Holyhead gets to Llangefni at 8:40?[1]

To improve I need to

Name

Area

$\frac{\dots}{20} \times 100 = \dots\%$

- 1. Calculate
 - a. **Perimeter** of these shapes

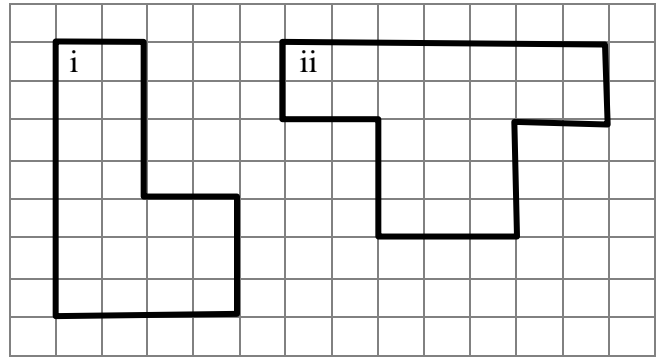
i. [1]

ii. [1]

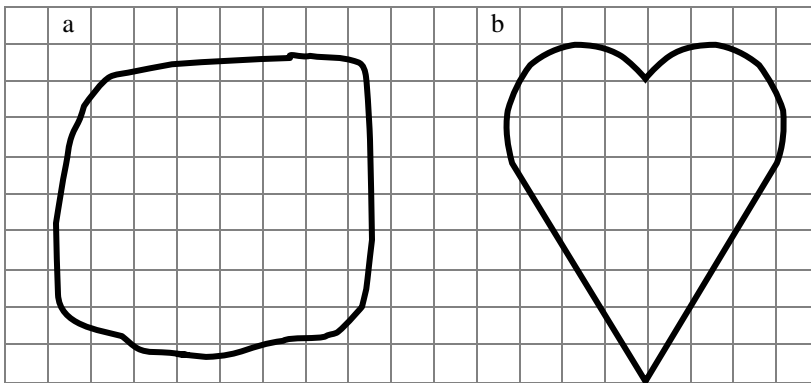
- b. The **area** of these shapes

i. [1]

ii.[1]



- 2. Estimate the **area** of these shapes by **counting squares**

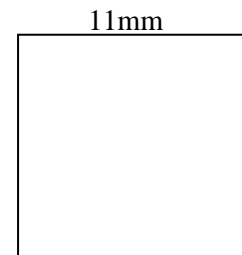
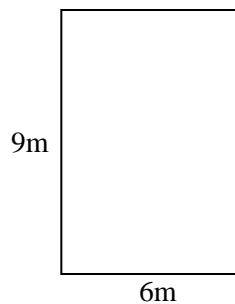
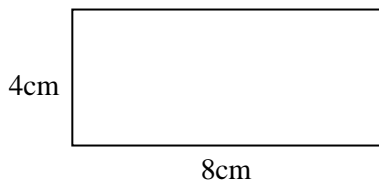


a. Area
.....[2]

b. Area
.....[2]

- 3. Calculate the **perimeter** and **area** of these shapes.
Remember use the correct **units**

UNITS [2] for correct units



Perimeter =[2]

Perimeter =[2]

Perimeter = [2]

Area = [2]

Area = [2]

Area =[2]

To improve I need to

Name

Angles

$\frac{\dots}{20} \times 100 = \dots\%$

1. Write the name for each of these angles.

a.



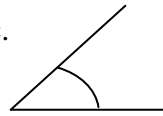
.....

b.



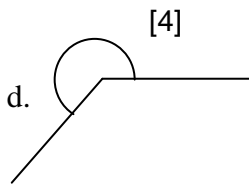
.....

c.



.....

d.

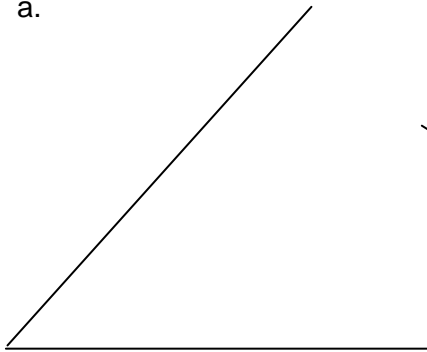


.....

2. Measure the following angles

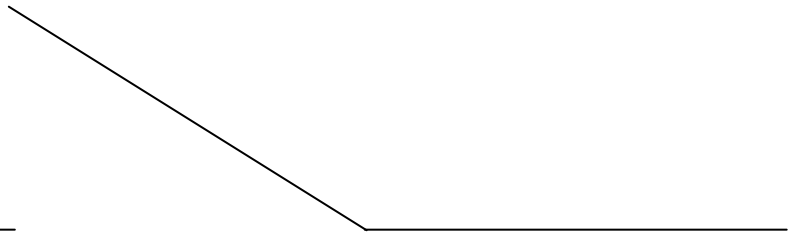
[2]

a.



.....

b.



.....

3. Draw the following angles:

[4]

a. 20°

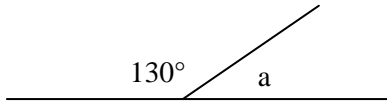


b. 145°

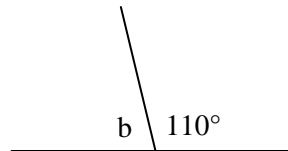


4. Calculate the unknown angle.

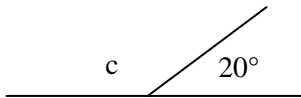
[6]



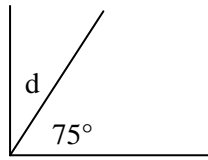
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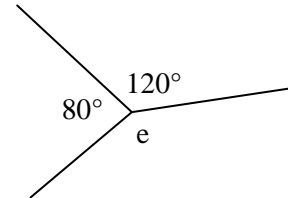
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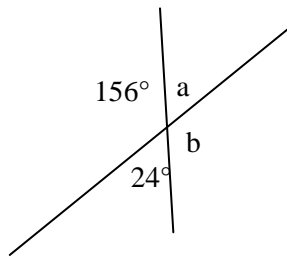
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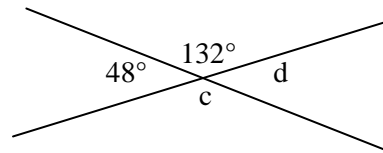
5. Calculate the unknown angle.

[4]



a.....

b.



c.

d.

To improve I need to

Name **Functional Mathematics**

1. An ice hockey league published the following information about the total attendance at matches for the years 2009, 2010 and 2011.]

	Number of teams	Total Attendance		
		2009	2010	2011
Division 1	10	19 080	21 354	21 876
Division 2	10	12 150	12 276	11 879
Division 3	9	4680	3684	2856

What was the total attendance for all matches in 2011?

[2]

In Division 3, how many more people attended the matches in 2009 than attended the matches in 2011?

[2]