

Ysgol Uwchradd Caergybi

Mathematics Department Homework Pack

Year 8 Module 5 Foundation

Topic	Page	Date	Mark %	Comments / To Improve
Area 1	1	.....	.....	..........
Area 2	2 - 3	.....	.....	..........
Probability	4	.....	.....	..........
Dec -%- Money	5	.....	.....	..........
Numeracy -1	6	.....	.....	..........
Numeracy-2	7	.....	.....	..........
Numeracy-3	8	.....	.....	..........

Name

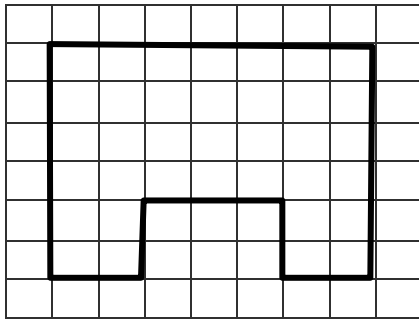
Class Teacher

Name

Area - 1

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

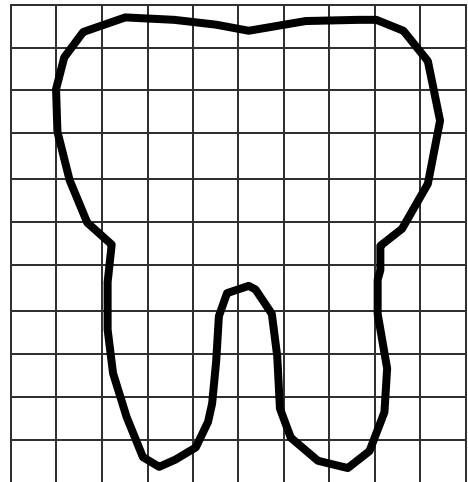
1. Find the **perimeter** and **area**



a. Perimeter..... [1]

b. Area [1]

2. Estimate the **area** of this tooth



Area[2]

2. Calculate the **perimeter** and **area** of these shapes.

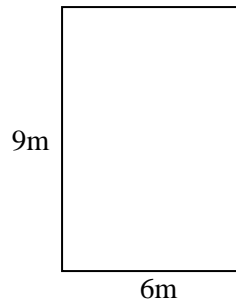
Top Tip
Perimeter = ADD
Area = Multiply

Remember use the correct **units** (2 marks for correct units)



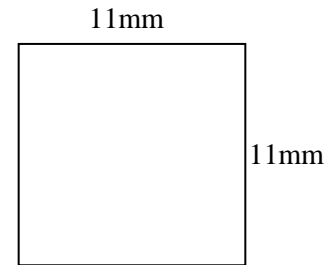
Perimeter =[2]

Area = [2]



Perimeter =[2]

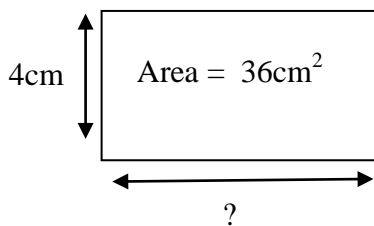
Area =[2]



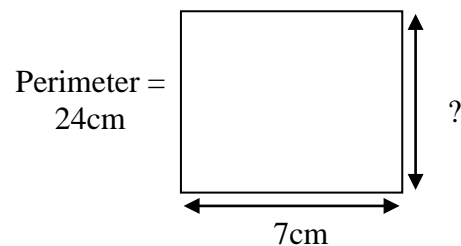
Perimeter = [2]

Area =[2]

3. Find the missing lengths of these two shapes



length ? [1]



length ? [1]

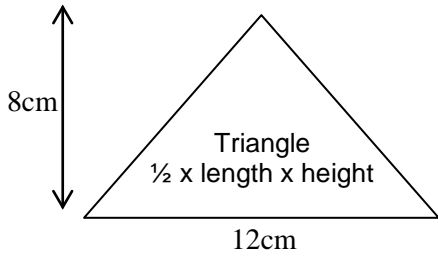
To improve I need to

Name

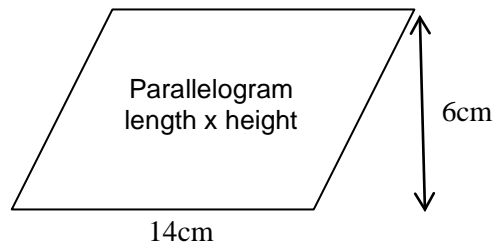
Area - 2

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

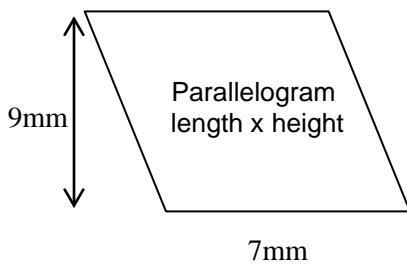
1. Calculate the **area** of these shapes. Use the correct formula and **units UNITS** [2]



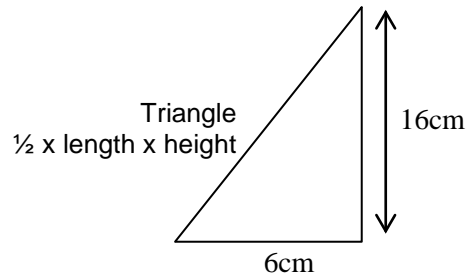
Area [2]



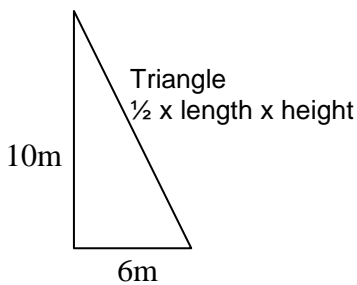
Area [2]



Area [2]



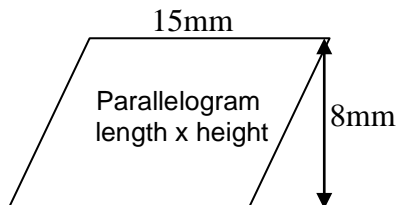
Area [2]



Area

.....

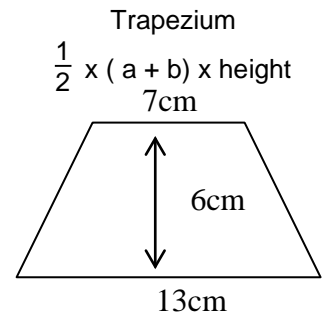
..... [2]



Area

.....

..... [2]

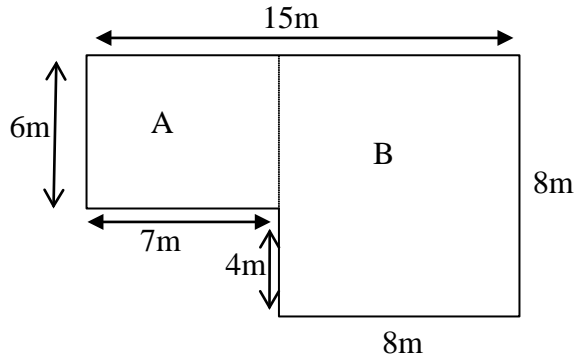


Area

.....

..... [2]

2. Calculate the Perimeter and Area of this shape



Perimeter =[3]

Area =[3]

Working out

.....

.....

.....

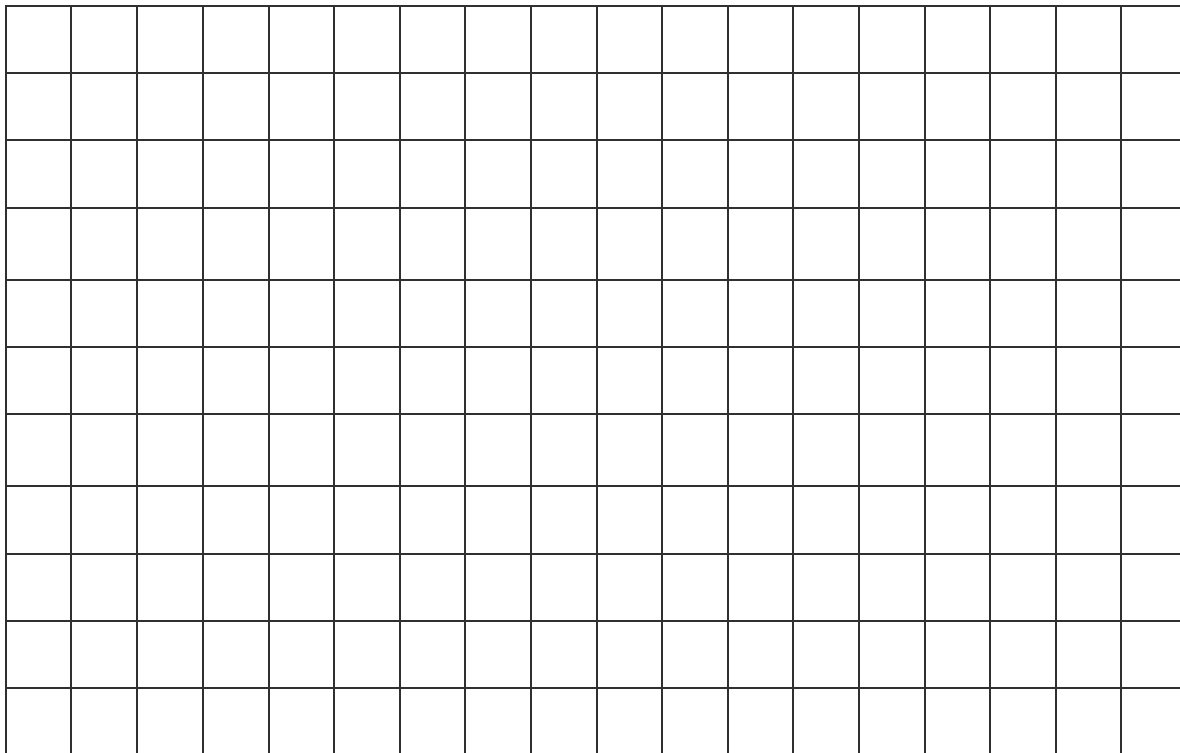
.....

.....

.....

.....

Challenge – Draw a shape with an area of 18 and Perimeter of 18 [3]

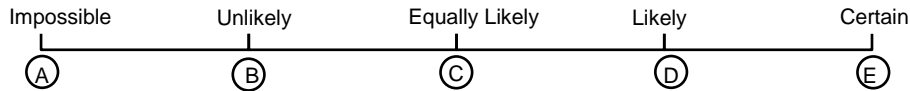


To improve I need to

Name

Probability

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



1. From the list below, which events correspond to the above **letters**. [5]
- a. Getting a 'head' when tossing a coin
 - b. An Elephant will walk into your next maths class
 - c. It will rain this month
 - d. You will get a number less than 7 if you throw a fair dice
 - e. Choosing a boy(at random) if 90% of the class are girls

2. Complete the following



- a. Obtaining a '2' when throwing a dice
(write as a fraction) Probability is
- b. Obtaining a 7 when turning the spinner
Probability is

3. Complete the following table .

Probability of happening	Probability of NOT happening
$\frac{4}{5}$	
$\frac{7}{10}$	
	$\frac{12}{18}$
0.25	
	0.68

4. Sammy has two dice numbered in an unusual way.
The two dice are thrown and Sammy's score is calculated by **adding** the two values are.

- a. Complete the table [2]
- b. What is the probability of obtaining a score of seven ?Dice 1 [2]
- c. What is the probability of obtaining a score greater than 7 ? [2]

6						
5						
4						
3	4	5	6	7	8	9
2	3	4	5	6	7	8
1	2	3	4	5	6	7
	1	2	3	4	5	6

Dice 2

To improve I need to

$$\frac{\dots}{15} \times 100 = \dots\%$$

1. Find
- a. 23% of 20 [1]
 - b. 26% of 90 [1]
 - c. 45% of 21 [1]
 - d. 72% of 20 [1]
 - e. 36% of 90 [1]
 - f. 92% of 21 [1]

2. Here's a copy of an old report card. [4]

Unfortunately the percentage has not been filled in. *Show your working out here*

.....

.....

.....

Subject	Mark	Percentage	Comment
Maths	$\frac{18}{30}$	.....	Great Mark
English	$\frac{23}{40}$	.....	Could do better
Science	$\frac{57}{80}$	.....	Excellent
French	$\frac{41}{70}$	.....	Très Bien

3. William buys a Xbox one from Argos for Kate in the sales,
How, much the Xbox Cost ? [3]



.....

.....

Argos Xbox £349

SALE 12% off all Electrical goods

4. Elizabeth receives £12 a week pocket money, she spends 30% on sweets and saves the rest. How much did she save [2]

.....

To improve I need to

Non Calculator

1. Calculate (÷ by the bottom x by the top)

a. $\frac{1}{5}$ of 20 [1]

d. $\frac{2}{5}$ of 20 [2]

b. $\frac{1}{10}$ of 90 [1]

e. $\frac{4}{10}$ of 90 [2]

c. $\frac{1}{3}$ of 21 [1]

f. $\frac{2}{3}$ of 21 [2]

2. Find

a. 10% of £240 [2]

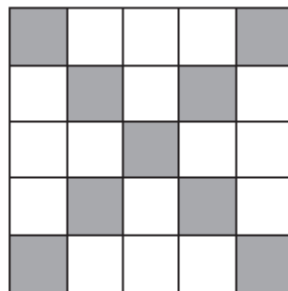
c. 5% of £240 [2]

b. 10% of £64 [2]

d. 20% of £64 [2]

3. What fraction of the following figure is shaded? [2]

Shaded fraction



4. Shade 75% of the following figure. [2]



5. Complete the following table. [4]

Fraction	Decimal	Percentage
$\frac{1}{4}$	0.25	25%
		40%
	0.3	

Name

Numeracy - 1

$$\frac{33}{25} \times 100 = \dots\%$$

ADDITION

NON CALCULATOR

1.

$$\begin{array}{r} 88 \\ + 65 \\ \hline \\ \hline \end{array}$$

2.

$$\begin{array}{r} 83 \\ + 67 \\ \hline \\ \hline \end{array}$$

3.

$$\begin{array}{r} 87 \\ + 79 \\ \hline \\ \hline \end{array}$$

4.

$$\begin{array}{r} 568 \\ + 72 \\ \hline \\ \hline \end{array}$$

5.

$$\begin{array}{r} 576 \\ + 258 \\ \hline \\ \hline \end{array}$$

6.

$$\begin{array}{r} 564 \\ + 569 \\ \hline \\ \hline \end{array}$$

SUBTRACTION

NON CALCULATOR

7.

$$\begin{array}{r} 86 \\ - 39 \\ \hline \\ \hline \end{array}$$

8.

$$\begin{array}{r} 85 \\ - 28 \\ \hline \\ \hline \end{array}$$

9.

$$\begin{array}{r} 73 \\ - 56 \\ \hline \\ \hline \end{array}$$

10

$$\begin{array}{r} 653 \\ - 62 \\ \hline \\ \hline \end{array}$$

11.

$$\begin{array}{r} 538 \\ - 472 \\ \hline \\ \hline \end{array}$$

12.

$$\begin{array}{r} 933 \\ - 565 \\ \hline \\ \hline \end{array}$$

2 marks each plus 1 mark for effort

To improve I need to

Name

Numeracy - 3

.....%

NON CALCULATOR Complete the multiplication grid

X	3	1	4	8	5	9	6	10	7	2
6										
1										
8										
5										
3										
4										
2										
10										
9										
7										

Name

Numeracy - 3

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

1. Write down the first 10 Square numbers

Answer [2]

2. Write down the first 10 multiples of 8

Answer [2]

3. Write down all the factors of

a. 40 Answer [2]

b. 28 Answer [2]

4. Write down value of

a. 7^2 Answer 8^2 Answer [4]

b. $\sqrt{36}$ Answer $\sqrt{81}$ Answer [4]

5. Write down a

a. Square number between 20 and 30 Answer [1]

b. Square number between 30 and 40 Answer [1]

6. What number must be added to 46 to make 67? [1]

Answer

7. What is the difference between 76 and 59 [1]

Answer

To improve I need to