Name:			
Homework - P	owers and Roots		
Question 1			
State the valu	ues of the following:		
a) 4 <sup>2</sup>	b) 10 <sup>2</sup>	c) 12 <sup>2</sup>	
Question 2			
•	ues of the following		
a) √36	b) √25	c) $\sqrt{121}$	
Question 3		Г	
State the are	a of the square with si	des 8 cm.	
		L	8 cm
Question 4			
State the leng	gth of the square with	an area of 81 cm²	81 cm <sup>2</sup>

Name:			
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a) 4 <sup>2</sup>	b) 10 <sup>2</sup>	c) 12 <sup>2</sup>	
Question 2			
•	ues of the following		
a) $\sqrt{36}$	b) $\sqrt{25}$	c) $\sqrt{121}$	
<b>u) v</b> 50	<b>5)</b>	C) V 121	
Question 3			
State the are	a of the square with si	des 8 cm.	
			8 cm
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Homework - Money

Question 1

Two shops sell Kreemy Yoghurts

At which shop are Kreemy Yoghurts the better value for money? Explain by showing all your working.





#### Question 2

The exchange rate is £1 to \$1.44

- a) I want to change £1500 to dollars. How many dollars would I get?
- b) On returning from America I have \$270 and change them back into pounds. I got £200, what was the exchange rate?

## Question 3

I bought a new kitchen costing £8495. I took out a Hire Purchase contract agreement. I paid a deposit of £900 and £450 a month for 18 months.

How much would I have saved if I had paid cash?

Name:

Homework - Money

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Name:
Homework - Multiples and Factors
Question 1 Write down the first 8 multiples of 6
Question 2 Write down all the factors of 36
Question 3 Write down the lowest common multiple of the following: a) 5 and 6 b) 8 and 10
Question 4 Write down the highest common factor of the following: a) 20 and 24 b) 12 and 20
Question 5 Find all the prime factors of 20

Name:
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Homework - Patterns

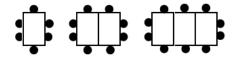
### Question 1

Write down the next two terms of the sequences:

- a) 16, 20, 24, 28,
- b) 93, 90, 87, 84,

## Question 2

In a canteen the tables are set out like this:



a) Complete the table below:

Number of tables	1	2	3	4	5	6
Number of seats	6	8				

b) Using S for seats and T for tables. Complete the following formula:

c) How many seats would be required for 17 tables?

Homework - Patterns

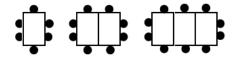
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Name:

Homework - Solving Equations

# Question 1

Solve the following equations for  $\boldsymbol{x}$ 

a) 
$$3x - 1 = 13$$

b) 
$$4x + 3 = 27$$

c) 
$$5x - 7 = 2x + 2$$

d) 
$$4x - 8 = 2$$

**e)** 
$$4(x+1) = 3$$

f) 
$$\frac{1}{3}x + 2 = 7$$

Question 2 Solve the inequalities

a) 
$$3x - 4 \le x + 2$$

**b)** 
$$3(2x-1) > 15$$

Name:

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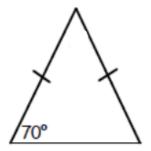
Homework - Angles

Question 1

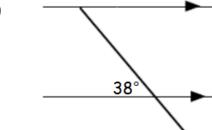
- a) What is the complementary angle of 72°?
- b) What is the supplementary angle of 119°?

Question 2 Fill in all the missing angles

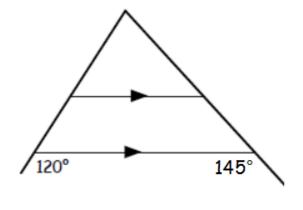
a)



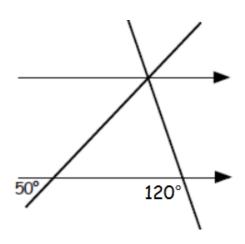
b)



c)



d)



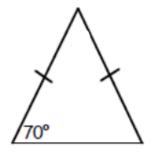
Homework - Angles

Question 1

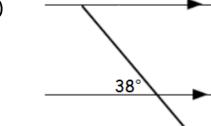
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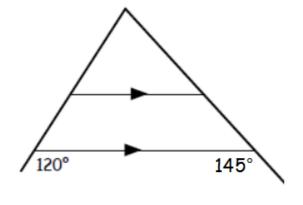
a)



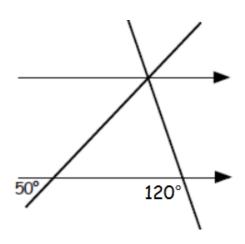
b)



c)



d)



## Homework - Fractions

## Question 1

Change the following to a mixed number

a)  $\frac{12}{7}$ 

b)  $\frac{35}{9}$ 

## Question 2

Change the following to an improper fraction

a)  $3\frac{2}{7}$ 

b)  $1\frac{3}{5}$ 

## Question 3

Multiply the following questions and simplify where possible

a) 
$$\frac{4}{7} \times \frac{7}{8}$$

b) 
$$2\frac{2}{3} \times 1\frac{6}{7}$$

## Question 4

Divide the following questions and simplify where possible

a) 
$$\frac{4}{5} \div \frac{24}{25}$$

b) 
$$3\frac{2}{5} \div 1\frac{1}{2}$$

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Name:

Homework - Scale Drawing

Question 1

Write the 3-figure bearing for:

a) North West

b) South East

## Question 2

A toy truck has been made to a scale :- 1 cm to  $1 \cdot 5$  m. If the length of the toy truck is 6 cm, what is the length of the real truck?

Question 3
This lighthouse has been drawn using a scale of 1cm to 12m.

How high is the real lighthouse?



Name:

Homework - Scale Drawing

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Write the 3-figure bearing for:

a) North West

b) South East

## Question 2

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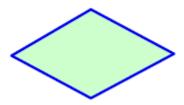


Name:	<del></del>
Homework - Proportion	
Question 1	
Write the following ratios in their simplest form a) 34:18 b) 12 cm: 4 m	: c) 5 m : 10 cm
Question 2	
Share 27 toffees between Brain and Helen in the that Brian gets the larger share.	e ratio of 2 : 1 so
Question 3	
One pair of boots costs £55. How much would it	be for 3 pairs?
Question 4	
Seven bars of soap costs £14.70. How much woul	d four bars cost?
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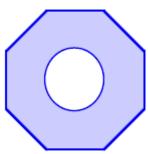
Name:
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Homework - Symmetry
Question 1

Write down the how many lines of symmetry the following shapes have:

a)

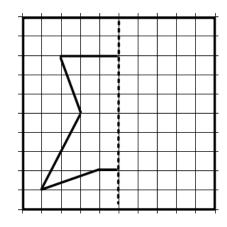


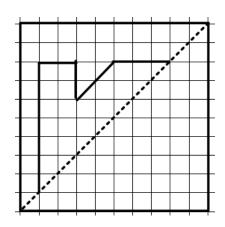
b)



## Question 2

Complete these diagrams to make symmetrical shapes



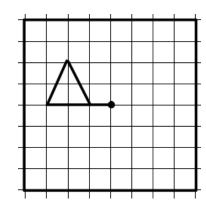


Question 3

Rotate the shape by 180°

Homework - Symmetry

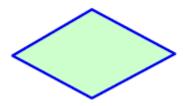
Question 1



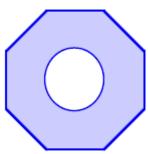
Name:

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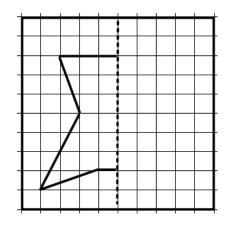


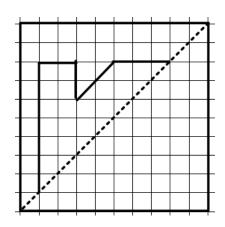
b)



## Question 2

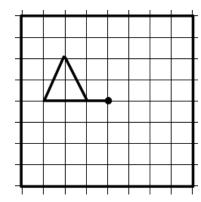
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Question 3

Rotate the shape by 180°



Homework - Probability

Name:			
-			

A bag contains 4 red counters, 5 blue counters and 3 orange counters. If a counter was chosen at random state the probability of picking:

a) Red

b) Blue

c) White

d) A red or a blue

## Question 2

A dice is rolled and a coin is flipped. Complete the table of all possible combinations:

	1	2	3	4	5	6
Head	H1	H 2				
Tail			Т3			

State the probability of getting

- a) A Tail and an odd number
- b) A Head and a number greater than 2

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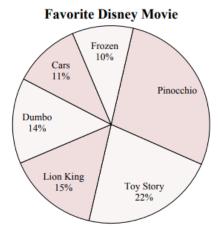
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Homework - Statistics

Name:	

A group of 200 people were asked for their favourite Disney Movie and the results were recorded in the pie chart.

a) What was the least popular movie?



- b) What percentage of people selected Pinocchio?
- c) How many people selected Dumbo?

### Question 2

Here are the weights, in kg, of 8 people; 63 65 65 70 72 86 90 72

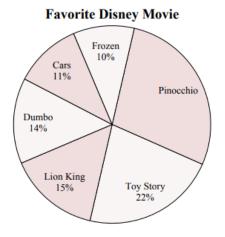
- a) State the range of the weights
- b) State the median weight
- c) Work out the mean weight

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#### Homework

Name:
-------

Round the following to 1 significant figure

a) 4590.7

- b) 0.00667
  - c) 0.9978

Question 2

Round to 1 significant figure to estimate the following

a) 4500 x 831

b) 93.7 x 195

c) 79000 ÷ 390

d) 24000 ÷ 47

Question 3

Calculate the approximate circumference of a circle with radius 8 cm.

Homework

Name:	
-------	--

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Name:	
Name:	

## Homework - Non Calculator Work

## Question 1

Work out

a) 521.7 + 387.52

b) 607.5 - 291.63

## Question 2

a) 235 x 9

b) 531.76 x 6

## Question 3

Round to 2 decimal places

a) 521 ÷ 7

b) 741 ÷ 8

### Homework - Non Calculator Work

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a) 521.7 + 387.52

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