

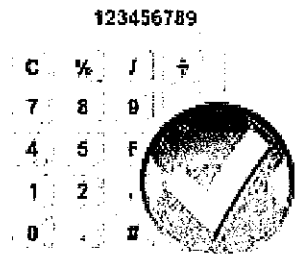
Year 11 – Set 5
Revision Homework
Easter Holidays

Name: _____

Teacher: _____

Instructions

- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*



Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers.

It is important that you put maximum effort into all homework tasks!

If you are having problems with any of the questions use the Corbett Maths website to support you. We have put the relevant video number next to each question to help you.

The following sites may also be useful:

- PiXL Maths App
- MrBartonMaths – use the student section
- Mathsgenie
- MyMaths (croftonhs, pentagon)
- GCSE Bitesize

Your Class teacher will go through the questions in the first week after Easter.

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 Write 3758 correct to the nearest 1000

(Total for Question 1 is 1 mark)

- 2 Simplify $y + 3y - 2y$

Video number 9

(Total for Question 2 is 1 mark)

- 3 Write down all the factors of 18

Video number 216

(Total for Question 3 is 2 marks)

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4 The table gives information about the prices of cinema tickets.

| Cinema ticket | Price |
|------------------------------|--------|
| adult ticket | £7.80 |
| child ticket | £5.80 |
| family ticket (for 4 people) | £24.30 |

Mr Edwards and his 3 children go to the cinema.

It is cheaper for Mr Edwards to buy 1 family ticket rather than 4 separate tickets.

(a) How much cheaper?

The film starts at 6.45 pm.
The film lasts 102 minutes.

Video number 322

(b) What time does the film finish?

(Total for Question 4 is 5 marks)



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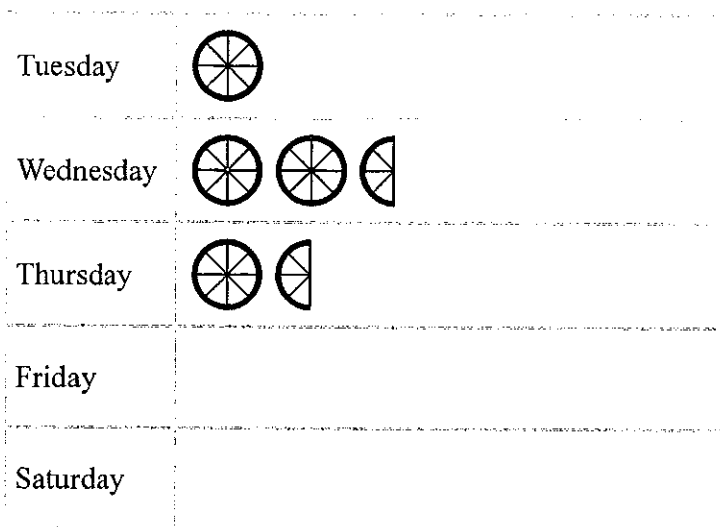
- 5 Thais has a large bottle of shampoo.
There are 2 litres of shampoo in the large bottle.

Thais also has some empty small bottles.
Each small bottle can be completely filled with 150 ml of shampoo.

How many small bottles can be completely filled with shampoo from the large bottle?

(Total for Question 5 is 3 marks)

- 6 The incomplete pictogram shows information about the number of cycles sold in a shop on Tuesday, on Wednesday and on Thursday.



Video number
161

Key:

A total of 20 cycles were sold on Tuesday, Wednesday and Thursday.

8 cycles were sold on Friday.

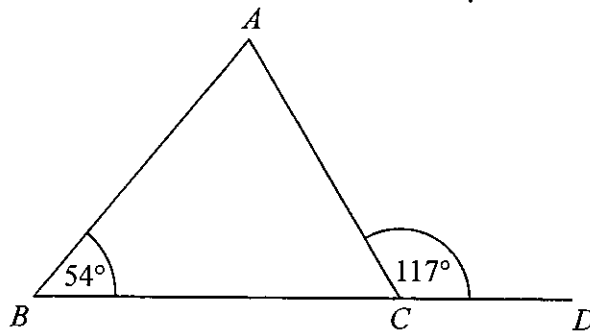
15 cycles were sold on Saturday.

Use this information to complete the pictogram.

(Total for Question 6 is 3 marks)



7

Video numbers
37 and 327

BCD is a straight line.

ABC is a triangle.

Show that triangle *ABC* is an isosceles triangle.

Give a reason for each stage of your working.

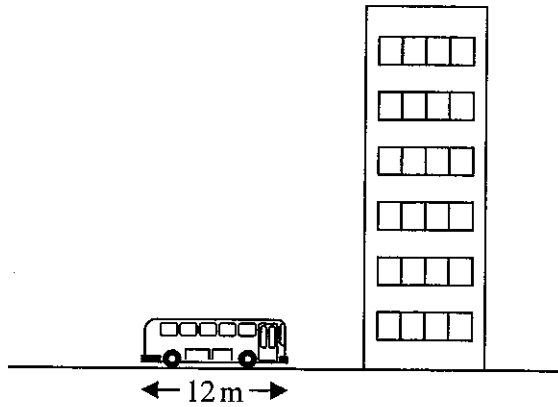
(Total for Question 7 is 4 marks)



P 4 9 3 8 6 A 0 5 2 0

8

Video number
285



The picture shows a bus next to a building.
The bus has a length of 12 m.

The bus and the building are drawn to the same scale.

Work out an estimate for the height, in metres, of the building.

..... m

(Total for Question 8 is 2 marks)

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9 Nidah writes down two different prime numbers.

She adds together her two numbers.
Her answer is a square number less than 30

Find two prime numbers that Nidah could have written down.

Video numbers
225 and 226

(Total for Question 9 is 2 marks)

10 Jim thinks of a number.

$\frac{2}{3}$ of Jim's number is 48

Work out $\frac{5}{6}$ of Jim's number.

Video numbers
138 and 137

(Total for Question 10 is 2 marks)

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11 Jack's driving school has two offers.

Video number
210

Offer 1

First driving lesson free
All other driving lessons normal price

Offer 2

All driving lessons
5% off the normal price

The normal price of a driving lesson is £24

Douglas is going to have 12 driving lessons.

Which is the cheaper offer for 12 driving lessons, Offer 1 or Offer 2?
You must show how you get your answer.

(Total for Question 11 is 3 marks)

12 2.5 kg of apples cost £3.60

Video number 255a.

Work out the cost of 3.5 kg of apples.

£.....

(Total for Question 12 is 2 marks)



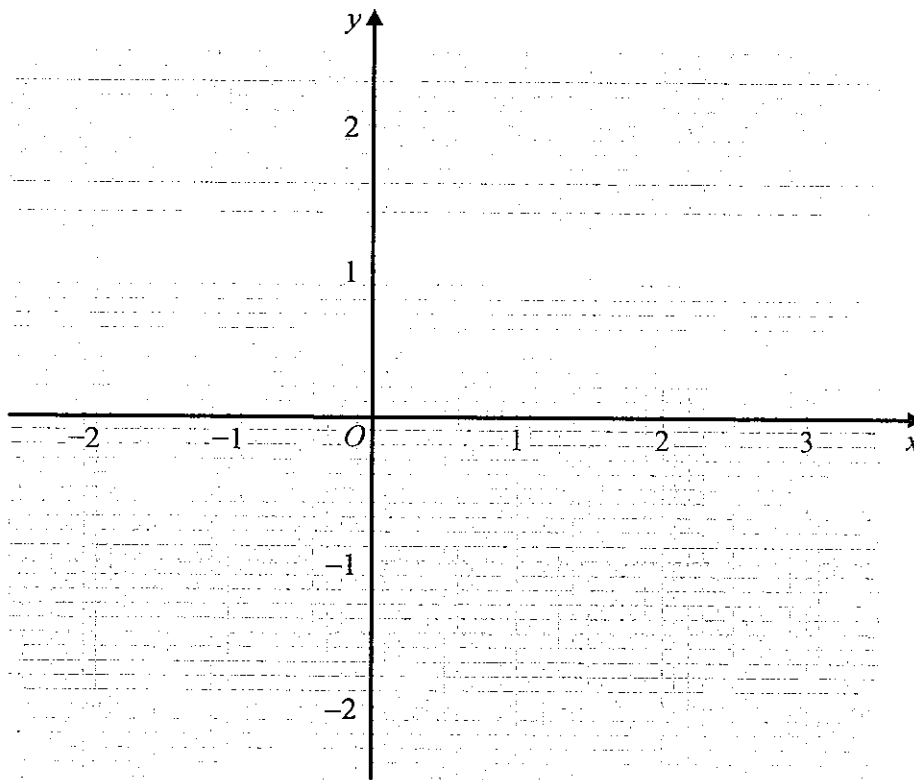
13 (a) Complete the table of values for $y = \frac{1}{2}x - 1$

Video number
186

| | | | | | | |
|---|----|----|---|---|---|---|
| x | -2 | -1 | 0 | 1 | 2 | 3 |
| y | -2 | | | | 0 | |

(2)

(b) On the grid, draw the graph of $y = \frac{1}{2}x - 1$ for values of x from -2 to 3



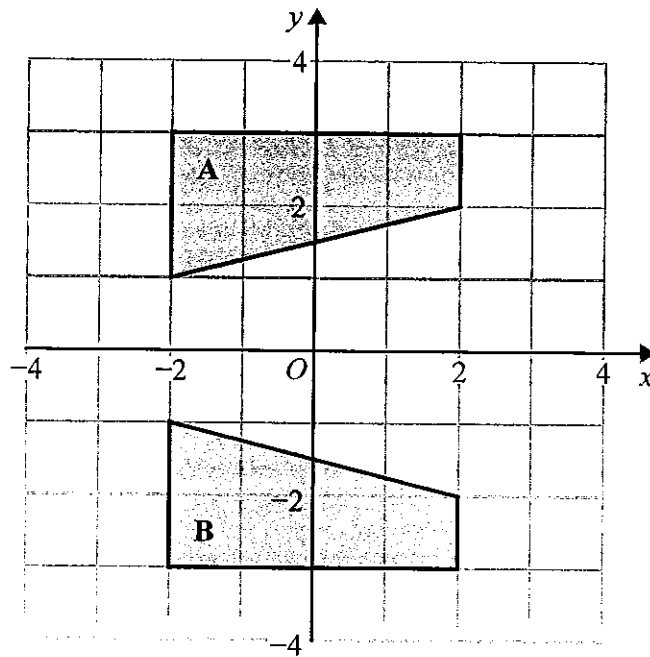
(c) Use your graph to find the value of x when $y = 0.3$

$x =$

(Total for Question 13 is 5 marks)



Video number 273.



Describe fully the single transformation that maps shape A onto shape B.

(Total for Question 14 is 2 marks)

15 The ratio of the cost of one metre of cotton fabric to the cost of one metre of silk fabric is 2 : 5

Complete the table of costs.

Video number 271

| | 2 m | 6 m | 8 m | 9 m |
|---------------|-----|-----|-----|-----|
| cotton fabric | £6 | | | |
| silk fabric | | | | |

(Total for Question 15 is 3 marks)



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