



Year 7

Maths Revision

Name

I 

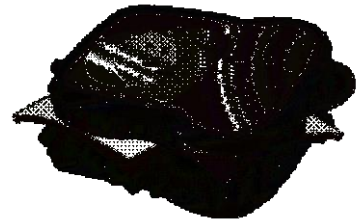
Math



1. Look at the menu below:



Tea	60p
Coffee	80p
Cola	60p
Sandwiches	£1.80
Beef burger	£2.95



(a) Work out the cost of three beef burgers.

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(b) Work out the cost of two sandwiches and five cups of coffee.

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(c) How many cups of tea can be bought with £5?

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6 marks

2. Work out the next three numbers in each of these sequences:

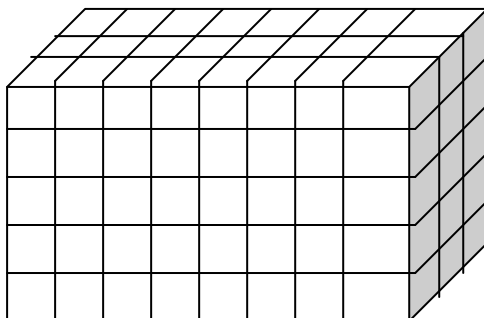
(a) 20 17 14

(b) 1 4 9 16

(c) 5 6 8 11 15 20

5 marks

3. How many cubes would you need to build the following cuboid?



Volume =

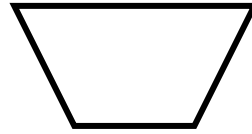
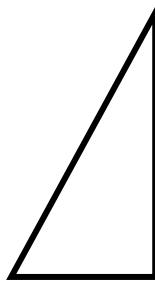
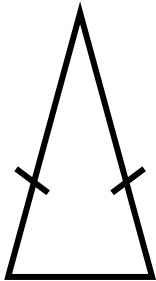
2 marks



4. (a) For each of the shapes below, choose a description and write it on the dotted line:

- (i) parallelogram (ii) isosceles triangle (iii) trapezium
(iv) scalene triangle (v) kite (vi) pentagon

(b) Draw in any lines of symmetry that the shapes have.



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6 marks

5. An equilateral triangle has three sides the same length. What is the size of one of the angles?

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2 marks

6. (a) Convert 13.2 metres into centimetres

(b) Convert 430 millimetres into centimetres

(c) Convert 2.1 kilometres into metres

3 marks

7. (a) What is $\frac{1}{4}$ of 68 ?

(b) What is $\frac{3}{5}$ of 20?

(c) What is 0.1 of £40 ?

(d) Simplify the fraction $\frac{24}{36}$

(e) What is 0.03 re-written as a fraction ?

(f) Find 1% of 200 kg

(g) Work out $\frac{1}{2} + \frac{1}{4}$

9 marks



8. Work out the answers to the following. Show your workings clearly.

(a) $23.1 - 16.7$

(b) 821×16

(c) 4.1×7

(d) $42.3 \div 3$

5 marks

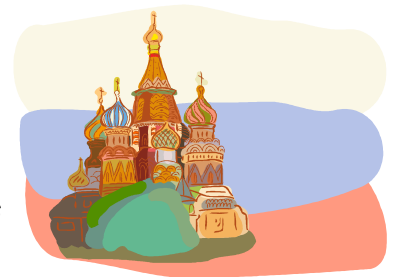
9.



In New York it is 23°C and in Moscow it is -5°C . What is the temperature difference?

2 marks

.....



10. If $a = 5$ and $b = 10$

Work out:

(i) $b - a$

(ii) $4b$

(iii) $2a^2$

4 marks

11. (a) Write down the factors of 25

(b) Write down the factors of 30

(c) Write down the highest common factor of 25 and 30

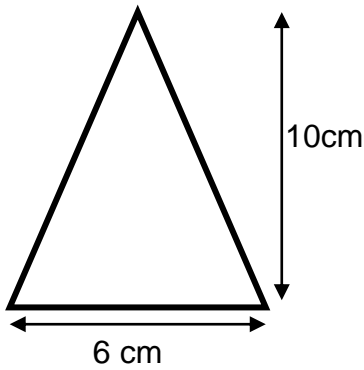
(d) Write down the prime factors of 30

5 marks

12. Calculate the area of the triangle (remember to write down the correct units)



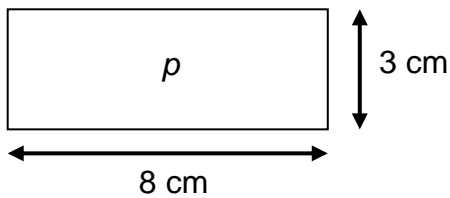
(a)



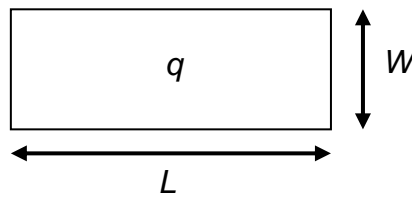
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(b) Find the perimeter of the rectangles p and q

(i)



(ii)



<p>p.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	<p>q.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
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7 marks

13. (a) In a survey 30% of people were left handed only, 10% were both left and right handed. What percentage were right handed only ?

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(b) Find 50% of 80

(c) 400×30



4 marks

14. Draw the lines of symmetry on the shape below :



1 mark

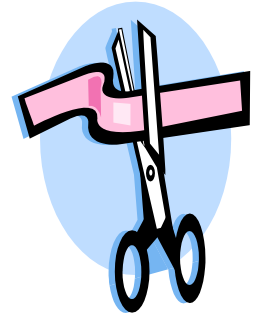


15. (a) How many pieces of ribbon of 30cm length can be cut from a piece of length 7 m ?

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(b) How many cm of ribbon are left over ?.....

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.....



3 marks

16. Work out:

(a) $10 - 2 \times 3$

(b) $4 \times (8 - 2)$ 2 marks

17. Solve:

(a) $x + 7 = 12$

.....
.....

(b) $10 - x = 6$

.....
.....

(c) $3x + 7 = 46$

.....
.....

(d) $\frac{x}{2} + 1 = 7$

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6 marks



18. Mrs Walker is planning a party for her grand-daughter and there will be 70 children in total.

Each child will have a party bag to take home with a lollipop and a toy.



Empty party bags are sold in packs of 12 and cost £2 per pack.
Lollipops are sold in packs of 8 and cost £4 per pack.
Toys are sold in packs of 9 and cost £10 per pack.

As a special new year offer, all prices are reduced by one quarter.

How many packs of each item will she need to buy and what will be her total cost?
Show all your working clearly.

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6 marks

19. Mrs Suzie needs to cover a floor measuring 3m by 2m. There are three possible options:

<p>Acorn Tiles</p> <p>50 cm x 50 cm</p> <p>Cost £4 each.</p>
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<p>Beeching Tiles</p> <p>60 cm x 40 cm</p> <p>Cost £3 each.</p>

<p>Carpet</p> <p>£14 per square metre</p> <p>Fitting cost £30</p>

Which option is the cheapest? Show all your workings & explain clearly.



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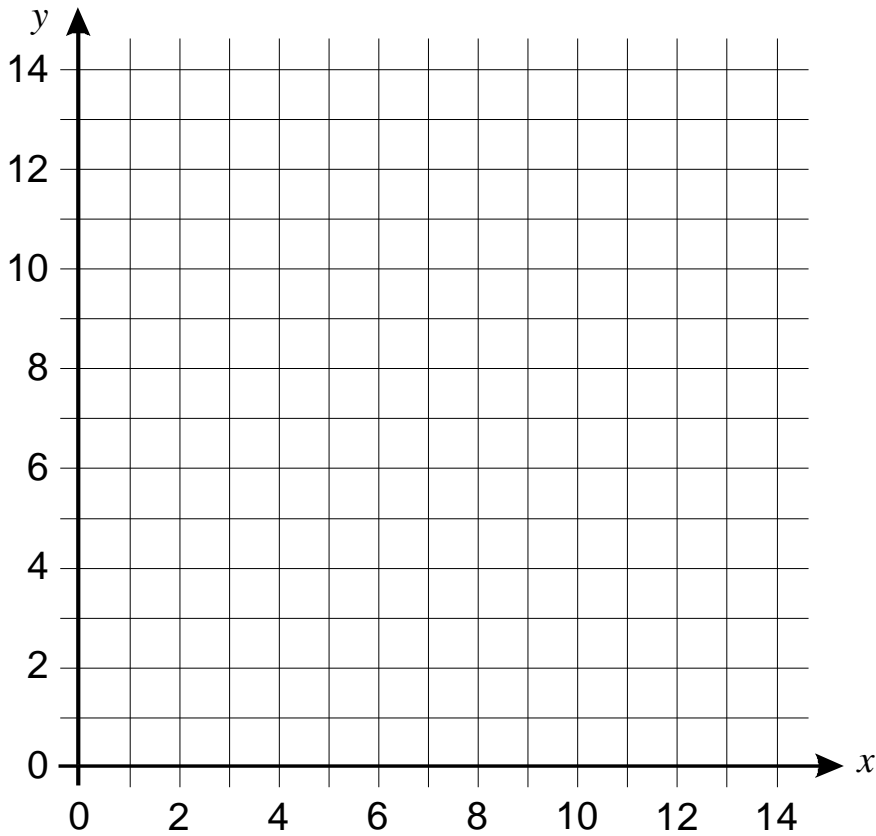
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5 marks



20. (a) Plot the points (8, 12) and (5, 12) on the grid below and join the points up to make a straight line.



- (b) Tick the correct statement:

This line is horizontal

This line is vertical

3 marks

21. In a dancing competition, the four judges gave marks ranging from -5 to 5 , (whole numbers). There were 4 competitors.

Andrew got top marks from every judge.

Brian's score was 4 less than Andrew.

Carla and Donna both had the same final score of 7.



Complete the table:

	Judge 1	Judge 2	Judge 3	Judge 4	Total
Andrew					
Brian	5	4	3		
Carla	4	2		0	
Donna	0	-3	5		

4 marks