



Sydenham
High School

GDST
GIRLS' DAY SCHOOL TRUST



Sample 11+ Maths Examination Paper

Time allowed: 1 hour

Total for paper: 80 marks

**Write your answers in the spaces provided.
You must write down all the stages in your working.**

1) Work out $3896 + 9639$

.....
(1 mark)

2) Work out $6423 - 2849$

.....
(1 mark)

3) Work out 65×19

.....
(1 mark)

4) Work out $9724 \div 3$

.....
(1 mark)

5) Round 7487 to the nearest 100

.....
(1 mark)

6) Write down the next number in the sequence
14, 17, 20, 23, 26, 29, ____

.....
(1 mark)

7) I buy three carrots at 19p each. What is my change from a £2 coin?

.....
(1 mark)

8) How many seconds are there in 3 and a quarter hours?

.....
(1 mark)

9) $1.34 \times 1000 =$

.....
(1 mark)

10) $5 - 2.67 =$

.....
(1 mark)

11) Two fifths of my number is 30. What is my number?

.....
(2 marks)

12) Work out $\frac{3}{5}$ of 285

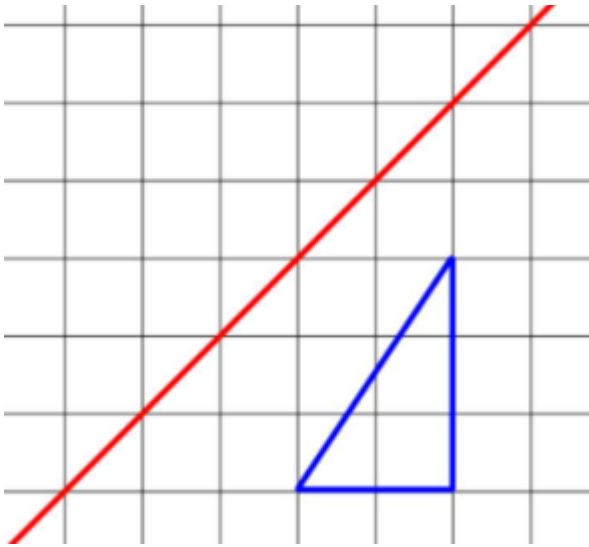
.....
(2 marks)

13) Circle the smallest of the following fractions

$$\frac{5}{6}, \frac{4}{5}, \frac{7}{8}, \frac{8}{9}$$

.....
(2 marks)

14) Draw the reflection across the mirror line



(2 marks)

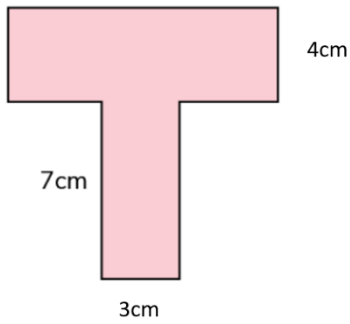
15) Write a $\frac{5}{8}$ as a decimal

.....
(2 marks)

16) A train leaves London at 8.34am and arrives in Glasgow at 12.52pm. How long is the train journey in hours and minutes?

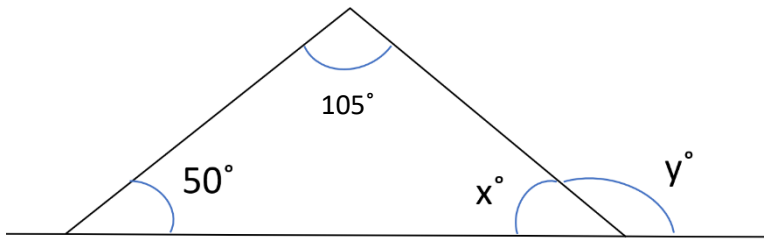
.....
(2 marks)

17) What is the perimeter of this shape?



.....
(2 marks)

18) $x =$ _____
 $y =$ _____



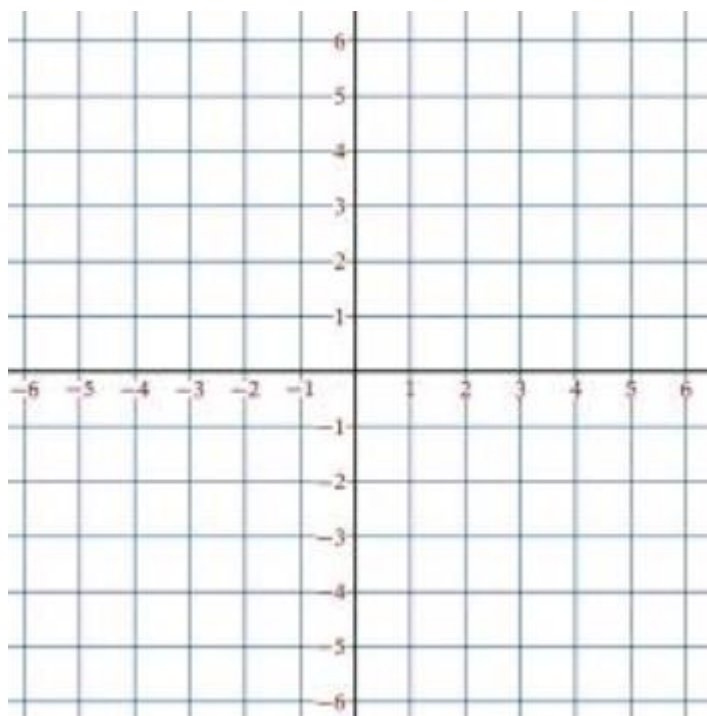
.....
(2 marks)

19) Add brackets to make this statement true

$$6 - 4 \times 4 + 5 = 18$$

.....
(2 marks)

20)



Plot

A (-4,1)

B (0, -1)

Plot a third point to create an isosceles triangle

.....
(2 marks)

21) George thinks of a number. She adds 3 and squares it. The answer is less than 100 and is a multiple of 7.
What was her original number?

.....
(2 marks)

22) How many lines of symmetry does a rhombus have?

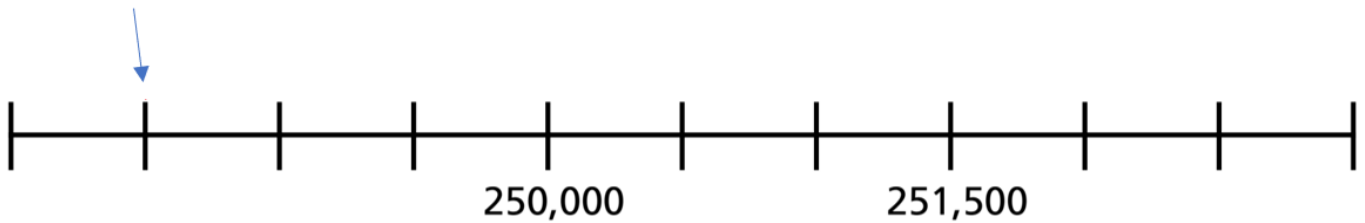
.....
(2 marks)

23) Put the following numbers in order from smallest to biggest

$\frac{1}{5}$, 0.32 , $\frac{11}{50}$, 23%

.....
(2 marks)

24) What number on the scale is the arrow pointing to?



.....
(2 marks)

25) This pictogram shows how many pets Class A have

Cat	
Dog	
Goldfish	
Hamster	

Key represents 6

a) How many more goldfish than hamsters do Class A have?

.....

b) How many pets do Class A have in total?

.....
(2 marks)

26) Alice's height is 152cm. Jo is 167cm tall. Jamie's height is halfway between. How tall is Jamie?

.....
(2 marks)

27) There are 40 counters in the bag, and they are either red or blue. If 30% of the counters are red, how many blue counters are there?

.....
(2 marks)

28) On a journey, Hannah drives on average at 40 km per hour. If the drive is 180km, and she leaves at 9.10am, what time do you expect her to arrive, if she does not take any breaks?

.....
(2 marks)

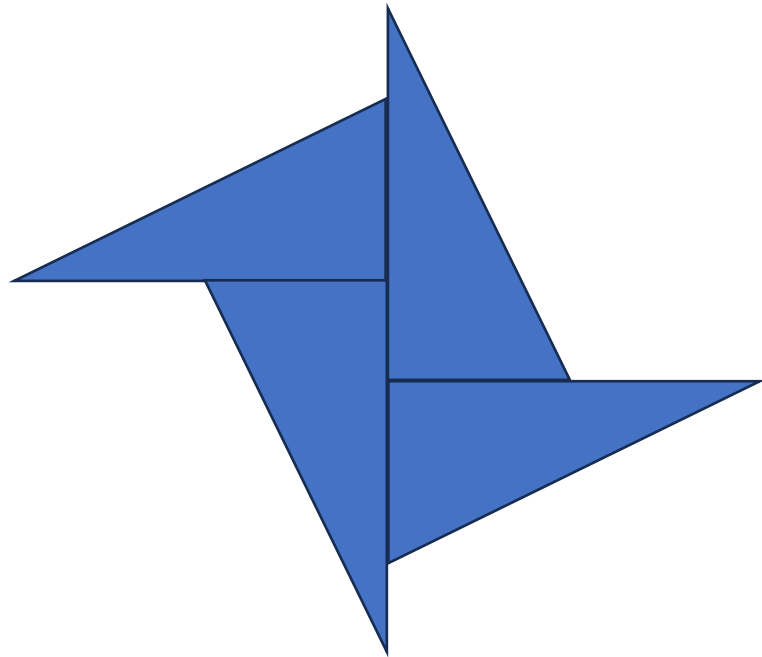
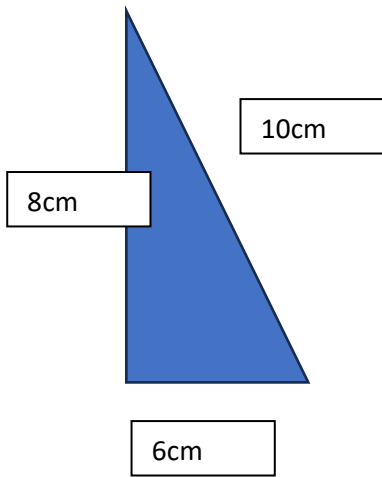
29) Recipe for pancakes – makes 12

- 100g flour
- 2 eggs
- 300ml milk

Suzie has three quarters of a litre of milk. Does she have enough milk for 32 pancakes?

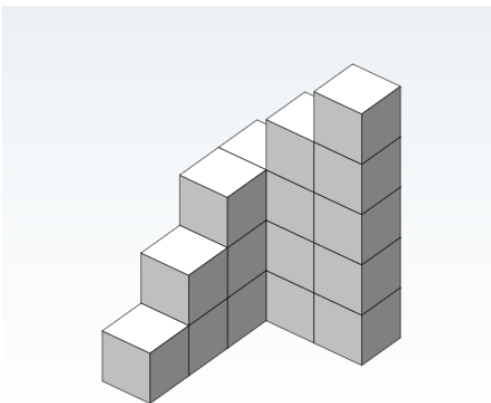
.....
(2 marks)

30) Tobi creates a shape using these triangles. What is the perimeter of this created shape?



..... (2 marks)

31) This 3D shape is created by stacking cubes on top of each other. Each small cube has volume 1cm^3 . What is the volume of this shape?



..... (2 marks)

32) Write out all of the square numbers from this list

27, 4, 34, 17, 25, 1

.....
(2 marks)

33) Here is a bus timetable

Buckley St	08:22	09:47	11:12	13:12
Dobshill	08:23	09:48	11:13	13:13
Hope	08:33	09:52	11:23	13:23
Caegwle	08:35	10:00	12:25	13:25
Wrexham Bus Station	08:50	10:15	11:40	13:40

a) I want to get from Dobsill to Hope. I want to get the fastest bus. What time should I leave Dobshill?

.....

b) I need to go to the supermarket at Caegwle. It takes me 45 minutes to buy everything I need, and I need to be finished by 2pm. What time should I leave Dobshill, if I want to leave as late as possible?

.....

(2 marks)

34) 17, 20, 23, 26, 29, 32

a) Is 51 in this sequence?

.....

b) Explain your answer

.....

(2 marks)

35) 7 5 4 2 1

Using these digits, make a:

- a. Multiple of three larger than thirty

.....

- b. Factor of 60

.....

- c. A two-digit square number

.....

- d. A prime number less than 10

.....

- e. A composite number

.....

- f. A prime number greater than 10

.....

.....
(6 marks)

36) I have a cube made up of 27 1cm^3 red cubes.
I remove all four of the corner cubes.
How many red 1cm^2 squares will I be able to see?

.....
(4 marks)

37)

$$\begin{array}{r} 4 \square 3 \\ \times \quad \square \\ \hline 1 \ 3 \square 5 \end{array}$$

.....
(4 marks)

38) The cost of 4 apples, 6 bananas and 10 oranges is £5.22
The cost of 6 apples, 8 bananas and 12 oranges is £6.62

What is the cost of 4 apples, 5 bananas and 7 oranges?

.....
(4 marks)

39) The mean score for 17 students in a test is 16 out of 20. Another student takes the test and the mean score is now 77.5%. What score on the test did this student get?

.....
(4 marks)

END OF PAPER