Name:	
Present School:	

The London Independent Girls' Schools Consortium Mathematics Specimen Paper

Instructions:

Time allowed: 1 hour 15 minutes

Only use a pencil and a rubber.

Do all your rough working in the space near the question. Do not rub it out.

If you cannot do a question go on to the next one.

NO CALCULATORS OR RULERS ARE ALLOWED.

2.

3.

4. a). What is
$$\frac{1}{9}$$
 of 135?

Answer:

b). What is
$$\frac{5}{9}$$
 of 135?

Answer:

5. Write in order of size with the smallest first

$$10\frac{1}{2}$$

Answer:



Answer:	:
Answer:	· ·

7. It takes Lucy 23 minutes to walk to her piano lesson. What time must she leave home if she has to be at her lesson by quarter past five?



Answer:

8. Which number between 70 and 90 can be divided exactly by both 8 and 9?

Answer:

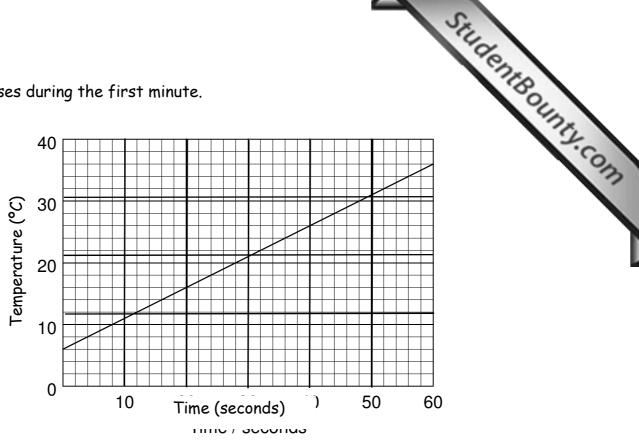
9. Add together the following numbers:

eleven million twelve thousand thirteen hundred fourteen

Answer:

10.	Fill in the spaces in this shopping list and comple	ete the total cost
		cte the total cost COST
	3 bars of chocolate at 88p each	
	500g of apples at 84p per kg	
	2 litres of milk at 40p per 0.5litre	
	TOTAL	
	What would my change be from a £10 not	e?
		Answer: £
11.	The temperatures recorded on a winter's day shown below: -	
	- 10°C 16°C 9°C - 2	0
	What is the difference in temperature between	the hottest and coldest cities?
		Answer:°C
12.	At a school picnic, 15 sandwiches are provided for How many sandwiches are needed for 56 childre	•
	ATTOMATION OF THE PARTY OF THE	Answer:

increases during the first minute.



What was the temperature of the liquid after 40 seconds? a.

Answer:

What was the increase in temperature in the first 20 seconds? b.

Answer:°C

14. This medicine bottle contains 240 ml. How many days should the medicine last?



Answer:

Look at the details of the three do 15.







Spot 6 months 5.1 kg

Student Bounty com

a).	What is the	e total wei	aht of the	three dogs?
ω).	** ' (\alpha 15 11 (\	o ioiai we	9111 01 1110	inii ee aegs.

Answer:kg

b). How much heavier is Rover than Spot?

Answer:kg

c). How old in years and months will Jasper be when Spot is 1 year old?

Answer:

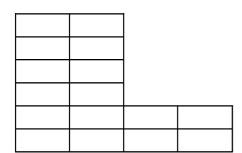
16. In a money-bag there are an equal number of 2p's, 5p's and no other coins. How many coins are in the bag if altogether there is £1.26?



Answer:

17. Shade in $\frac{5}{8}$ of this pattern:





18. Sam goes on a train journey from London to Aberdeen. The train stops at Durham on the way. The whole journey from London to Aberdeen is 524 miles and from Durham to Aberdeen is $269\frac{1}{4}$ miles.

How far is the journey from London to Durham?



Answer: miles

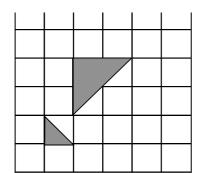
19. Two numbers add up to 15 and make 54 when multiplied together.

What are the two numbers?

Answer: and

20. Complete the diagram so that the line shown is a mirror line.





Student Bounts, com

21. Mathland won 20 medals at the Olympics.



4 medals were gold, 45% were silver, the rest were bronze.

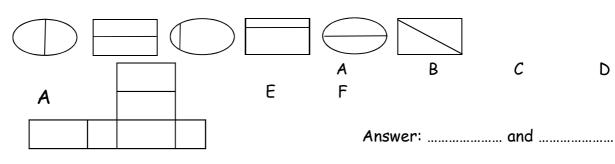
a). What percentage were gold?

Answer:

b). How many medals were bronze?

Answer:

22. Which two shapes do not belong with the other four?

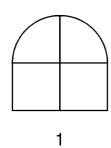


23. Which of the nets shown can be folded to make a closed box?

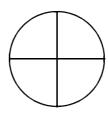


Answer:

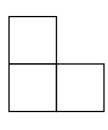
24.



2



3



4

a). Which shape has the largest area?

Answer:

b). Which shape has the largest perimeter?

Answer:

take a l	boat	trip	while	they	are	there.	Ιf	they	book	this	trip	before children.	(%)
England	, the	price	is £3	3 for	eac	h person	wi	th no	reduc	tions	for	children.	1

a). How much would this boat trip cost?



Answer:	£	
MISWEL .	L	

b). Max decides to book the trip in Jamaica after they have arrived. The cost is 1200 Jamaican dollars per adult and 900 Jamaican dollars per child.

What is the total cost of the trip in Jamaican dollars?

Answer: \$.....

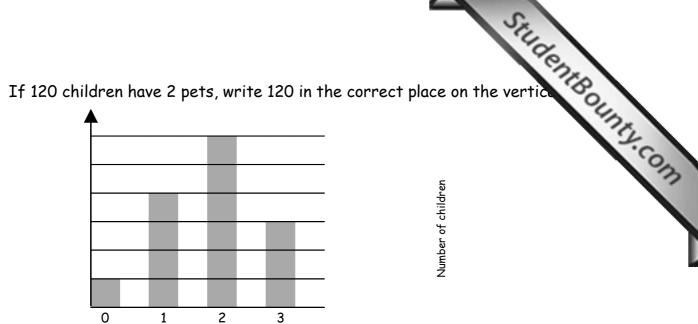
c). There are 40 Jamaican dollars to the pound. What is the cost of the trip in £'s?



Answer: £

d). How many £'s does Max save by booking this trip after arriving in Jamaica?

Answer: £



Number of children

How many children had no pets? a).

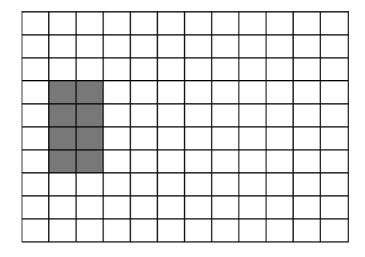
_	
Answer:	

b). How many pets do children in the school own altogether?

Number of pets

Answer:	
MISWEI.	

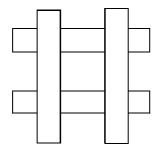
On the grid draw a triangle with the same area as the shaded rectangle. 27.



If every path must be walked at least once, find the shortest distance from P back to P. The distances are shown in km.

Answer:km

29. Four strips of paper are stuck on a table as shown. Each one is a rectangle 12cm long and 2cm wide.



What area of the table is covered?

Answer:cm²

30. A cuboid has faces with areas 24, square centimetres.



Answer:	cm,	cm,	cm
---------	-----	-----	----

31. R(a) represents a mathematical rule.

The rule for R (a) is "write down the remainder when a is divided by 5."

- e.g. R (23) = 3 because $23 \div 5$ gives a remainder of 3.
- a). Find R (8)

Answer:

b). Find R (21) \times R (34)

Answer:

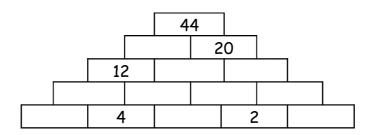
32. What is the angle between the hands of a clock at 2.30pm? (Remember that the hour hand moves as well!)

Answer:

33. In this pyramid, each brick contains a number.

The number on each brick is found a the numbers on the two bricks

Fill in the missing numbers on the bricks.



34.	The last	part of a	telephone	number	has four	digits,	e.g.

7814

1487

2103

2772

The last part of the telephone number can start with any digit apart from zero.

The other three digits can be any number. How many four digit numbers are there?

Answer:	

Student Bounty Com

35.







6 lollies and 3 ice-creams cost £8.52 3 ice-creams and 6 drinks cost £9.24 What would the cost of 1 lolly, 1 ice-cream and 1 drink be?

Answer: £

36. In this machine



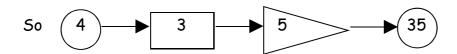
Student Bounts, com

and



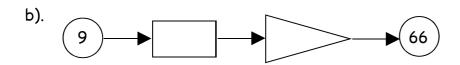
The first number (in the circle) is always bigger than the second number.

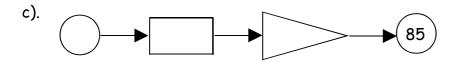
All the missing numbers are less than 10.

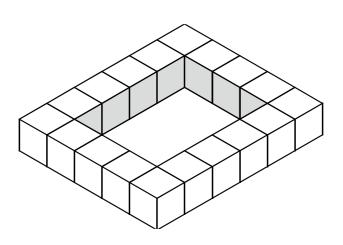


Find the missing numbers

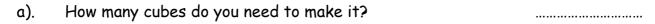








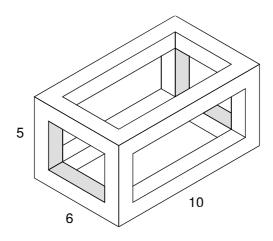
Student Bounts, com



b). What size is the 'hole' in the middle? by

How many cubes do you need to make a skeleton rectangle

You now make a skeleton box (cuboid). It measures 6 by 5 by 10.



e). How many cubes do you need?



Student Bounty.com were from 5 to 10 years old and all were different ages.

Tom and the five year old got a piggy bank.



Mary and the six year old got a jack in the box.

Both the 7 year old and the 8 year old got toy monsters.



Priya and Mary go to a different school from the seven year old whose hobby is stamp collecting.

Priya, who will be 9 years old on her next birthday, and the five year old are shorter than Tom.

Mary is twice Charlie's age.

George tried to frighten the others with his toy monster.

Mary's best friend Silma got a jack in the box.

In the table, fill in the age of each child and the present each receives.

Name	Age	Present
Tom		
Mary		
Priya		
Silma		
Charlie		
George		

The End

