Mathematics Question & Answer Set

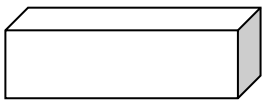
Answer Sheet

Shade in the option corresponding to your question.

1	**A**	**B**	**C**	**D**
2	**A**	**B**	**C**	**D**
3	**A**	**B**	**C**	**D**
4	**A**	**B**	**C**	**D**
5	**A**	**B**	**C**	**D**
6	**A**	**B**	**C**	**D**
7	**A**	**B**	**C**	**D**
8	**A**	**B**	**C**	**D**
9	**A**	**B**	**C**	**D**
10	**A**	**B**	**C**	**D**
11	**A**	**B**	**C**	**D**
12	**A**	**B**	**C**	**D**
13	**A**	**B**	**C**	**D**
14	**A**	**B**	**C**	**D**
15	**A**	**B**	**C**	**D**
16	**A**	**B**	**C**	**D**
17	**A**	**B**	**C**	**D**
18	**A**	**B**	**C**	**D**
19	**A**	**B**	**C**	**D**
20	**A**	**B**	**C**	**D**
21	**A**	**B**	**C**	**D**
22	**A**	**B**	**C**	**D**
23	**A**	**B**	**C**	**D**
24	**A**	**B**	**C**	**D**
25	**A**	**B**	**C**	**D**

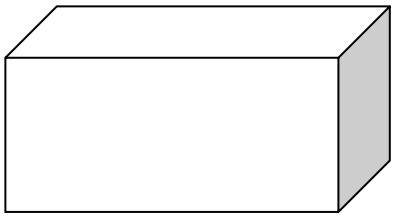
26	**A**	**B**	**C**	**D**
27	**A**	**B**	**C**	**D**
28	**A**	**B**	**C**	**D**
29	**A**	**B**	**C**	**D**
30	**A**	**B**	**C**	**D**
31	**A**	**B**	**C**	**D**
32	**A**	**B**	**C**	**D**
33	**A**	**B**	**C**	**D**
34	**A**	**B**	**C**	**D**
35	**A**	**B**	**C**	**D**
36	**A**	**B**	**C**	**D**
37	**A**	**B**	**C**	**D**
38	**A**	**B**	**C**	**D**
39	**A**	**B**	**C**	**D**
40	**A**	**B**	**C**	**D**

1 A pool holds 40 m^3 of water.



h = 2 m
w = 4 m
l = 5 m

How much water would this pool hold?



h = 6 m
w = 8 m
l = 9 m

A 160 m^3

B 432 m^3

C 184 m^3

D 272 m^3

---

2 Lex buys mineral water at 235 ¢ every 1.5 litres. She buys 5 litres of it to fill her jug. The best estimate of how much she pays is?

A $3

B $2

C $4

D $8

---

3 In this number sentence 14 + (13 ? 3) – (95 ÷5) = 34,

? must be:

A +

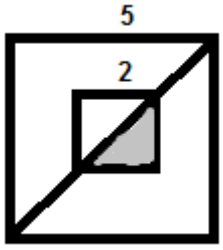
B -

C x

D ÷

---

4 The below image is of a square with figure representing the length of a side. What is the area of the grey shaded area?



A
2

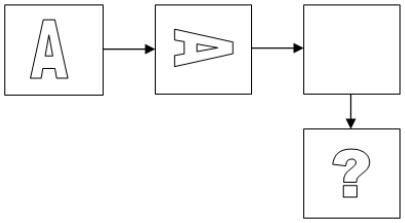
B
2.5

C
4

D
10

---

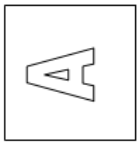
5 Lim has a piece of paper that has a letter A. He rotates the paper 90° clockwise. Then he flips the paper over its right hand edge so that the blank side faces her. Then he flips the paper over its bottom edge so that the side with the A faces her again.



Which of the following does Lim now see?

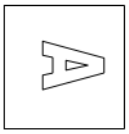
A

B



C

D



---

6 Questions 6 – 7 refer to the following information

Kris rides on a jeep at a steady rate to the market and walks to home at a different steady rate. Her total travel time was 28 minutes. If she rides on a jeep both ways, her total travel time would be 14 minutes.

If she walks both ways, her total travel time would be

A 28 minutes

B 14 minutes

C 56 minutes

D 42 minutes

---

7 How much faster can she ride on a jeep than walk?

A 1 time

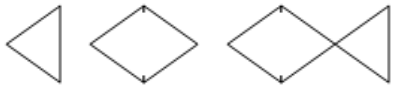
B 2 times

C 3 times

D 4 times

---

8 Here are the first three diagrams in a pattern formed with stick



How many sticks are needed to make the 8th diagram?

A 10

B 13

C 16

D 20

---

9 A motor rider travels 20 km. in 30 minutes.
Which of the following calculations gives the time in minutes for the motor rider to travel 2 km?

A 2 x 1.5

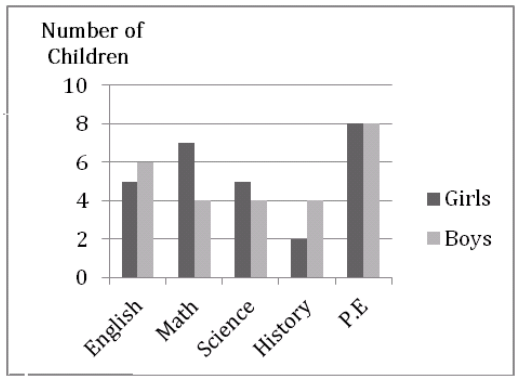
B 20÷2

C 2 x 3

D 2 x 2.5

---

10 Questions 10 – 12 refer to the following graph.



The graph shows the favorite subjects of the Year 6 students.

The number of children in Year 6 is

A 51

B 53

C 54

D 49

---

11 How many more Year 6 girls than Year 6 boys are surveyed?

A 1

B 2

C 3

D 4

---

12 Which one of these statements is incorrect?

A
More Year 6 girls than Year 6 boys were surveyed.

B
More Year 6 girls than Year 6 boys favor Science.

C
The number of Year 6 boys that that likes Math, Science and History are just the same.

D
The total numbers of Year 6 students are 51.

---

13 Jessy takes a strip of plastic rope 60 cm. long and bends it to form a square. The two ends of the rope neatly join. Then what is the side of the square?

A
15 cm.

B
20 cm.

C
24 cm.

D
30 cm.

---

14 Joan sells marbles in a glass container that weighs 7 kg. She sold the first quarter in one hour. The glass container and marbles then weighs 5.7 kg. For the next 2 hours the marbles were sold out. What does the glass container weigh without the marbles?

A
2.3 kg.

B
1.3 kg.

C
2.6 kg.

D
1.8 kg.

---

15 A tenth of a milliliter is ten thousandth of a liter. What is the tenth of a milliyear closest to?

A 1 second

B 1 minute

C 1 hour

D 1 day

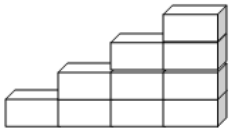
---

16 Questions 16 – 18 refer to the following information

Lyka is stacking boxes of matchsticks to make stairs. She calls these 1 -1 stairs because the pattern for making them is “go up one box then along one box”.

These stairs are 4 boxes long and 4 boxes high.

Starting with the stairs shown above, how many **additional boxes** of matchsticks would Lyka need to make 1 -1 stairs 12 boxes wide?



A 23

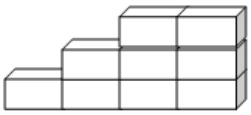
B 56

C 58

D 68

---

17 If you look around the initial stack of Lyka, there are total of 32 faces that can be seen.
How many faces could you see on these stairs?



A 21

B 24

C 28

D 30

---

18 How many boxes altogether would Lyka have according to her pattern if she had 9 boxes high?

A
28

B
45

C
72

D
81

---

19 A repacked 4kg of sugar costs $4.30. When you buy sugar per kilogram, it cost $1.09. If you buy three 4kg of repacked sugar, how much less expensive is it than if you bought 12kg of sugar per kilogram?

A
$1.90

B
$0.18

C
$0.24

D
$0.8

---

20 James has four small rectangles measured 5m by 2m wide and two squares measured 2m by 2m. He tried to join these shapes together at their edges to make 3 dimensional figures.

Which one of the following figures can she make?

A
A cube whose length, width and height are equal.

B
A rectangular solid

C
A prism with a triangular base

D
A sphere

---

21 Bruce cycled the park 6 times faster than his 4-year-old son John.

How long will it take John to completely cycle the park if his father takes 4 minutes to do it?

A 21 minutes

B 14 minutes

C 10 minutes

D 24 minutes

---

22 175 x 232 = 40,600. If we put decimal point next to hundreds it will become 1.75 x 2.32. What would be the correct answer to this?

A 4.6

B 4060.0

C 4.06

D 40.6

---

23 Manila is half day ahead than New York. If today is Monday 7:00 pm in Manila, what will be the time in New York?

A 7:00 am Tuesday

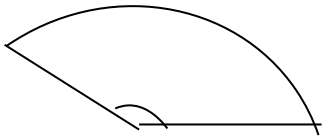
B 7:00 am Monday

C 7:00 pm Monday

D 7:00 pm Tuesday

---

24 In the figure shown, the size of the marked angle is



A Greater than a three-quarter turn

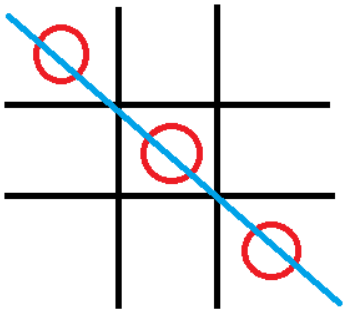
B Between a half turn and a three-quarter turn

C Less than a quarter

D Between a quarter and a half turn

---

25 A game called X-O can be won by completing three straight X's or O's at the pattern below. Find how many ways a certain player can arrange the X's or O's to win the game. A sample pattern for O's is shown below.



A 6 **B** 7 **C** 8 **D** 9

26

A	B	C
D	E	F
G	H	I

Each of the numbers 1, 2, 3, 4, 5, 6, 7, 8, and 9 is placed in this box. The sum of ABC is equal to 11.

Which of the following numbers cannot be placed in the A or B or C position?

A 1 **B** 4 **C** 7 **D** 9

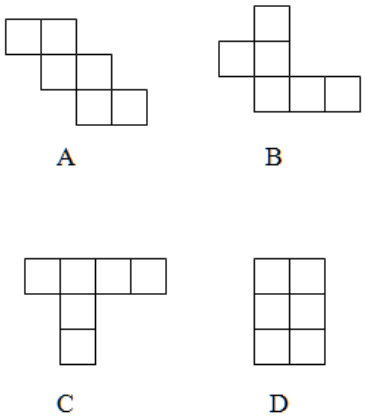
---

27 John has 20 rabbits and gives his niece 2 times as many rabbits as he gives to his nephew. If John has given away 9 rabbits in total, how many would he had given to his nephew?

A 3 **B** 4 **C** 5 **D** 6

---

28 Which of the following figure can make a cube?



A
A

B
B

C
C

D
D

---

29 Thirty-two pieces of equally cut paper cover 2 sq. metre. 0.5 sq. metre of the paper weighs 20 grams.

What is the weight of each piece of cut paper?

A
0.2 grams

B
1.5 grams

C
2.5 grams

D
0.16 grams

---

30 Questions 30 – 32 refer to the following information

Santos Family is a caretaker of cows and sheep, two third of the population are cows. Cows and sheep live either on farm A or farm B. Two third of the sheep live in farm A and one-third of the cow lives in farm A while the rest lives in farm B. There are 20 sheep in farm A.

How many cows live in farm A?

A
10

B
20

C
30

D
40

---

31 How many cows live in farm B?

A 10

B 20

C 30

D 40

---

32 What fraction of the whole population lives in farm A?

A 1/3

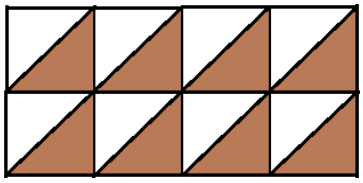
B 4/9

C 5/12

D 1/2

---

33 Liz wants to put triangular stones in this plot using this pattern. Each triangle has height of 5 cm and base of 5 cm.



How many brown triangular stones does she need to completely cover a plot 2000cm x 1000cm?

A 40000 pcs.

B 80000 pcs.

C 160000 pcs.

D 200000pcs.

---

34 Lui wanted to multiply by 4 but divided by 4 by mistake. Her answer was 35.

What should her answer have been?

A 560

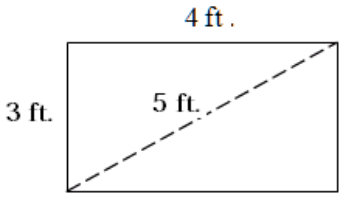
B 140

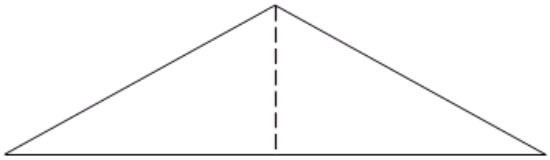
C 70

D 35

---

35 Bimbo cut plywood in triangular half and joins the two pieces together to make a triangle shape. The diagram shows the top view of the original plywood and new plywood.





Find the difference in perimeter of the old plywood and the joined one.

A 14 **B** 18 **C** 8 **D** 4

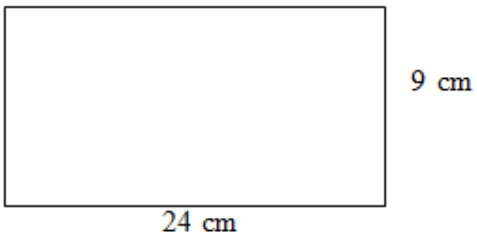
---

36 Max delivers bundles of bond paper in a store. 60 bundles of bond paper are 6m. high altogether. If each bundle has the same thickness, how thick does one bundle of bond paper is?

A 12cm **B** 10cm **C** 14cm **D** 17cm

---

37 Gift wrapping paper measuring 24cm by 9cm will be used to cover a box. However, only one face can be fully covered as the given area only has an excess of 2cm each side of the longer side of the wrapping paper.

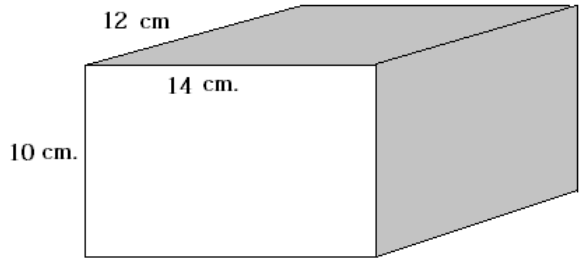


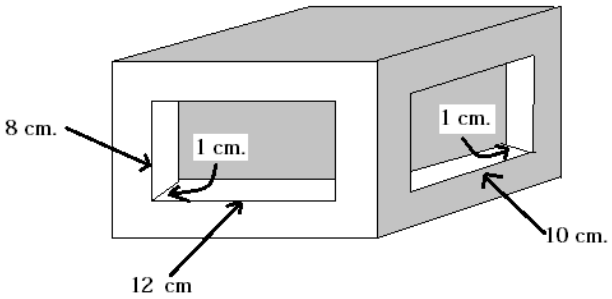
If a ribbon is to be tied around the edge of the covered face, what is the least length of ribbon that will be used?

A 58 cm **B** 60 cm **C** 62 cm **D** 64 cm

---

38 Jade has centicubes and formed a 3D shape as shown below. If he removes enough centicube to form the second figure below, determine the number of centicubes left. The created holes are only up to the second layer and applicable to all faces except top and bottom.





A 1328 centicubes

B 1215 centicubes

C 1000 centicubes

D 986 centicubes

---

39 Ali has a pack of lollipop. She can share them equally with her friend Jam, or equally with her friend Jam and Amy, or equally with her friend Jam, Amy and Bhea. Whichever way of sharing she chooses, there will be no lollipops left over. How many lollipops does a pack have?

A 15

B 12

C 16

D 18

---

40 This rectangle has an area of 54 square cm. The length is 9 cm. A new larger rectangle is made. All the sides are increased by two third of their original length.

The area of the larger rectangle is?

A 150 sq. cm

B 124 sq. cm

C 97 sq.cm

D 109 sq. cm

END OF PRACTICE EXAM