

MINISTRY OF EDUCATION

ST. VINCENT AND THE GRENADINES



COMMON ENTRANCE EXAMINATION

2011

MATHEMATICS

TEST CODE: 012A

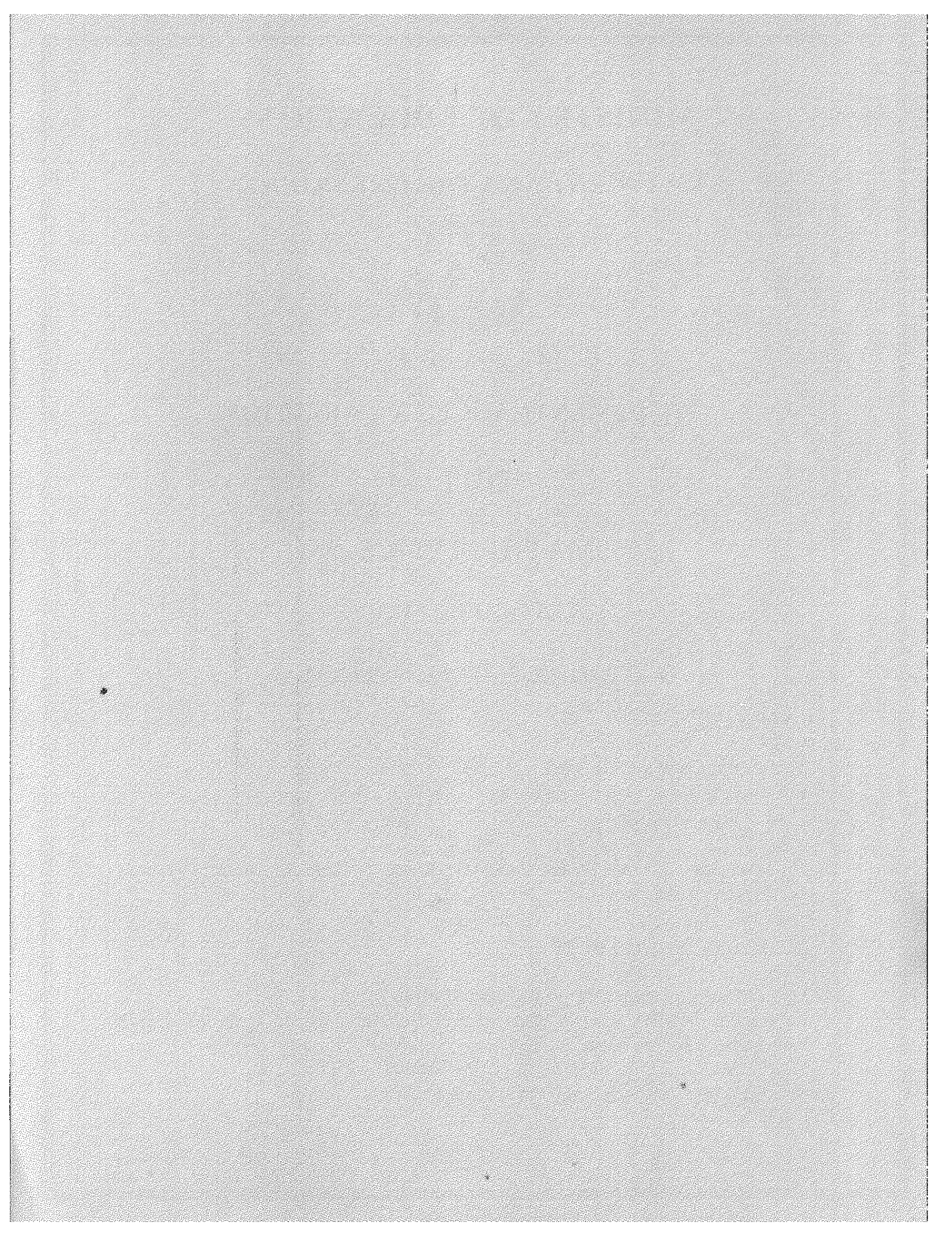
Time allowed: 1 hour 30 minutes

Instructions:

1. This examination has 60 items.
Each item has four possible answers: **A, B, C, D.**
Choose the correct answer.
2. On your answer sheet, shade the circle which contains the letter you have chosen for your answer.

Please use a No. 2 HB pencil

3. **Do not take any paper out of the examination room.**
Return this booklet, your answer sheet and all scrap paper to the invigilator before you leave the room.
4. You have **90 minutes** in which to complete this test.



1	$1409 + 275 + 83 =$	A 1608	B 1617	C 1767	D 3589
2	$567 - 180 =$	A 387	B 420	C 427	D 647
3	$525 \div 5 =$	A 15	B 105	C 150	D 1005
4	$650 \times 4 =$	A 2400	B 2420	C 2600	D 4220
5	How many square numbers are there between 0 and 30?	A 2	B 3	C 4	D 5
6	What is 25% of 100?	A 25	B 100	C 250	D 1000
7	What is 3873 rounded to the nearest 100?	A 390	B 3800	C 3870	D 3900
8	What must be subtracted from 3.25 to leave 1.78?	A 1.47	B 2.47	C 2.53	D 5.03
9	$200 \times 0.6 =$	A 1.200	B 12.00	C 120.0	D 1200
10	What is the smallest prime number?	A 1	B 2	C 4	D 9

11 Which of the following percentages is equal to 0.6?

A 0.6%

B 6%

C 60%

D 600%

12 Which of these is a reflex angle?

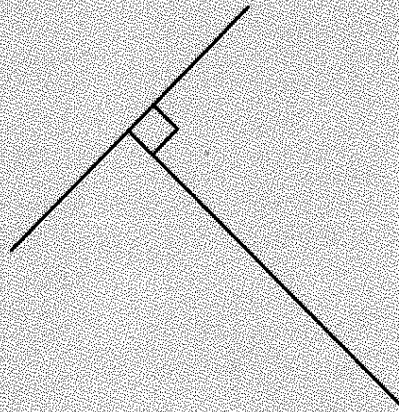
A 60°

B 145°

C 180°

D 245°

13 The pair of lines shown below are



A parallel

B perpendicular

C symmetrical

D equal

14 Which set of numbers below contains only numbers that can be exactly divided by 6?

A {6, 12, 24}

B {6, 16, 26}

C {8, 12, 16}

D {8, 14, 24}

15 What is 16 written as a power of 2?

A 2^3

B 2^4

C 2^8

D 2^{16}

16 Calculate $7 + 3 \times 4$

A 84

B 40

C 19

D 14

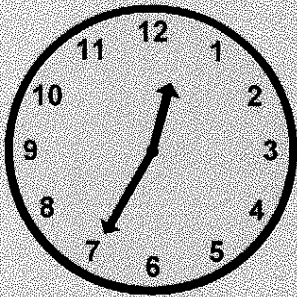
17 The Roman numeral CIX is equal to

- A 109 B 111 C 1009 D 1011

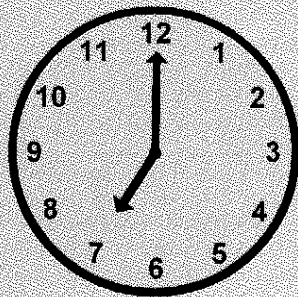
18 Which unit of measurement would be **best** to measure the length of a playing field?

- A millimetre B centimetre C metre D kilometre

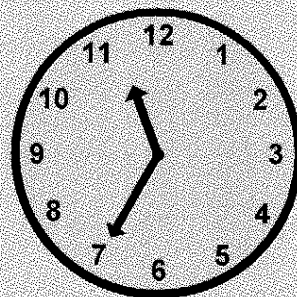
19 Which of the following clocks is showing 6:55?



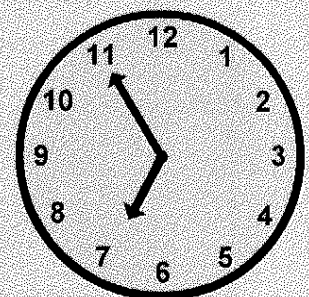
A



B

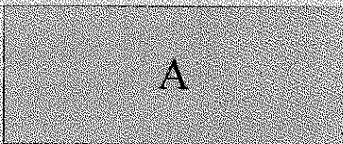


C

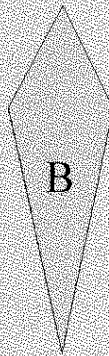


D

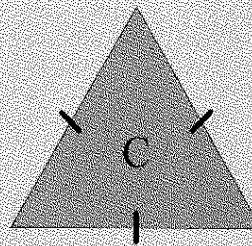
20 Which of the shapes below has four lines of symmetry?



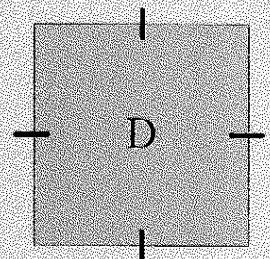
A



B



C



D

21 What is the rule for the sequence 12, 6, 3, 1.5, ?

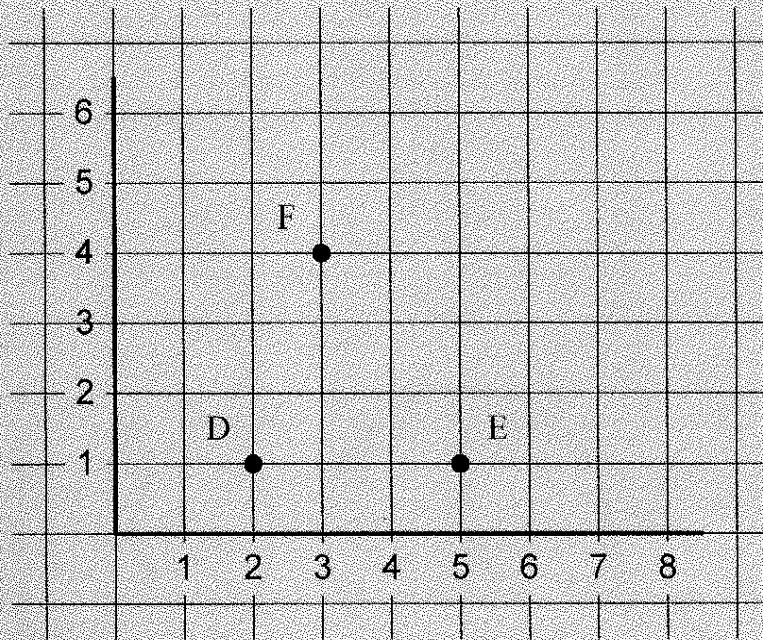
- A divide by 2 B subtract 6 C subtract 3 D divide by $\frac{1}{2}$

22 What is the x-coordinate of the point (5, 6) ?

- A 1 B 5 C 6 D 11

23

The points D, E and F shown below are three vertices of a parallelogram. What are the coordinates of the other vertex?



A (6,4)

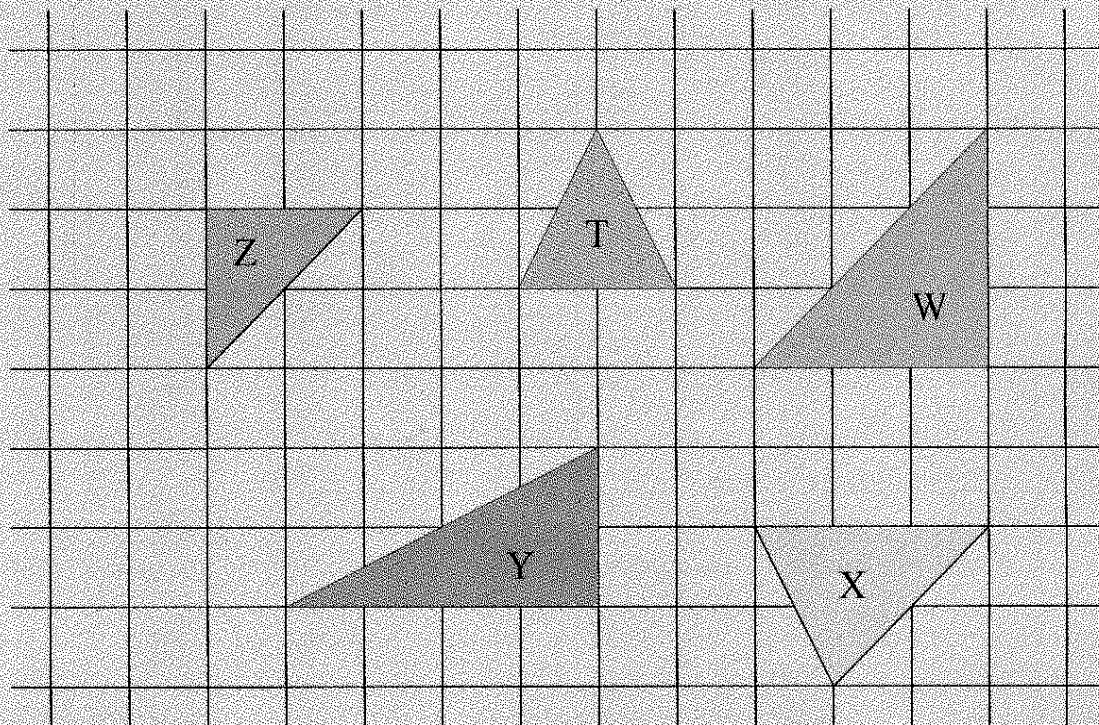
B (4,6)

C (5,4)

D (4,5)

24

Which of the triangles on the grid below has the same area as the triangle marked T?



A W

B X

C Y

D Z

25 If $\frac{\square}{3} = 6$, then the number missing from the box is

- A 2 B 3 C 9 D 18

26 What is the value of the digit that is underlined in the number 125.47?

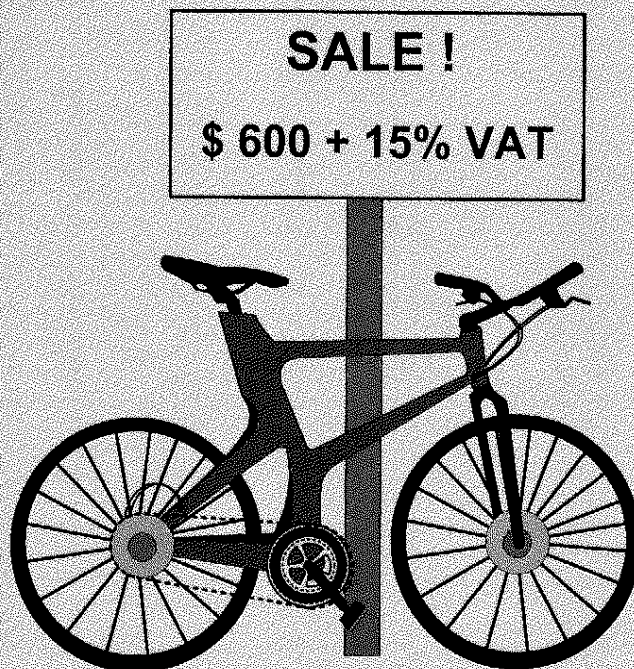
- A 700 B 70 C $\frac{7}{10}$ D $\frac{7}{100}$

27 Which operation will complete the problem below?

$$1025 \square 25 = 41$$

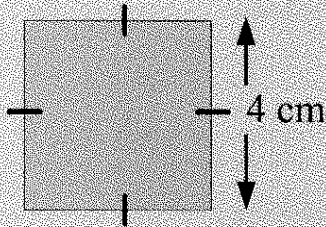
- A + B - C \times D \div

28 Henry wants to buy the bicycle shown below. How much will he pay for the bicycle?

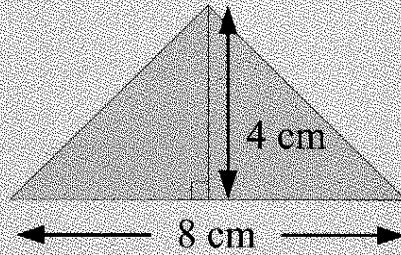


- A \$690 B \$615 C \$600 D \$90

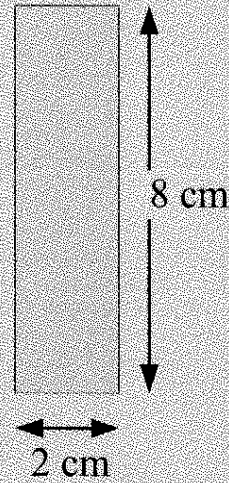
29 Which of the following **DOES NOT** have an area of 16cm^2 ?



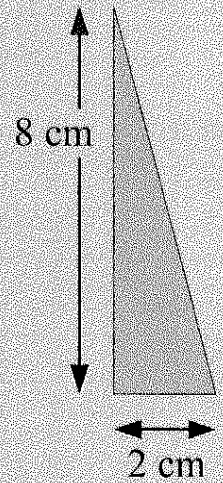
A



B



C



D

30 John is taking a vacation in England. He needs to change his EC dollars into British Pounds. The exchange rate is $\text{£}1.00 = \text{EC}\4.40 . How many pounds does John get in exchange for EC\\$1320.00?

A £30

B £300

C £3000

D £30000

31 $\frac{2}{5} + \frac{1}{3} =$

A

B

C

D

$\frac{3}{15} + \frac{1}{15}$

$\frac{2}{15} + \frac{5}{15}$

$\frac{6}{15} + \frac{1}{15}$

$\frac{6}{15} + \frac{5}{15}$

32 Kamal has 60 plums. He eats $\frac{1}{5}$ of them. How many plums does he have left?

A 12

B 20

C 48

D 55

33 Which of the following gives the same result as 0.2×0.7 ?

A

$$\frac{1}{2} \times \frac{1}{7}$$

B

$$\frac{1}{2} \times \frac{7}{10}$$

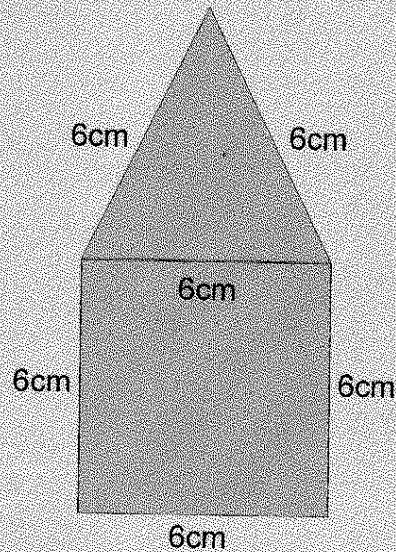
C

$$\frac{1}{5} \times \frac{1}{7}$$

D

$$\frac{1}{5} \times \frac{7}{10}$$

34 Use the diagram below to answer numbers 34 and 35.



What type of triangle is shown in the diagram?

A Equilateral

B Right

C Scalene

D Obtuse-angled

35 What is the perimeter, in centimetres, of the shape?

A 18

B 24

C 30

D 36

36 Subtract three thousand one hundred and forty-two from ten thousand, what will remain?

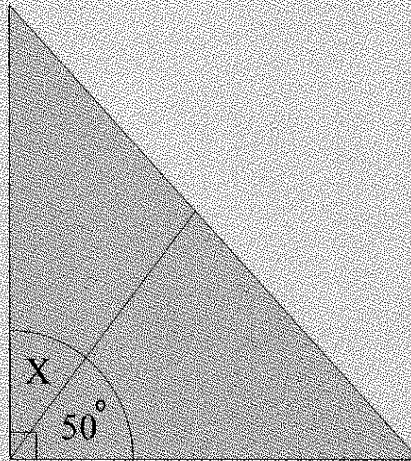
A 6857

B 6858

C 7142

D 13142

37 The value of X in the diagram shown is



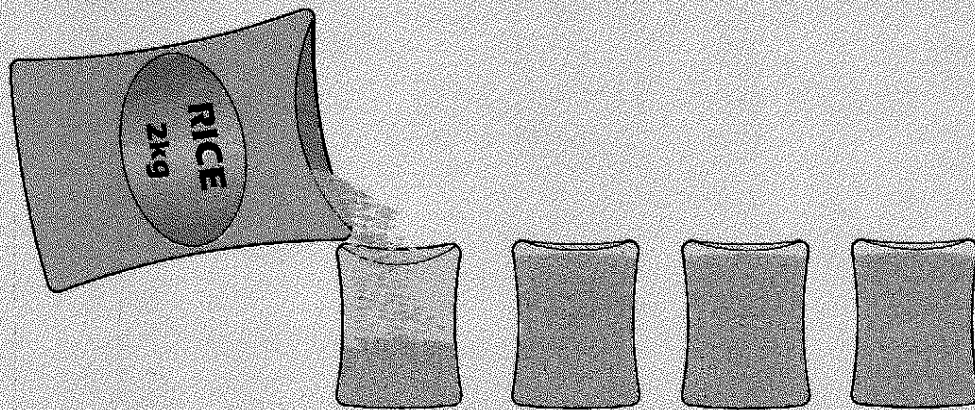
A 40°

B 90°

C 140°

D 180°

38



The 2kg bag of rice shown above is poured into 4 plastic bags in equal amounts. How many grams of rice will each bag contain?

A 5

B 50

C 500

D 5000

39

Which of the following is true?

A $100 \text{ mm} = 1 \text{ cm}$

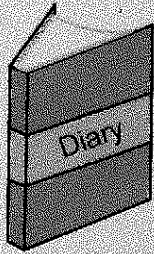
B $100 \text{ cm} = 1 \text{ m}$

C $100 \text{ m} = 1 \text{ km}$

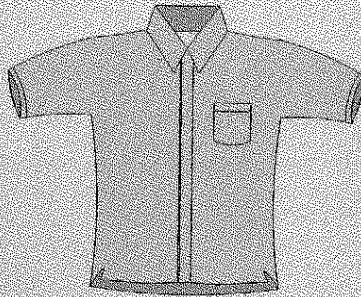
D $100 \text{ cm} = 1 \text{ km}$

40

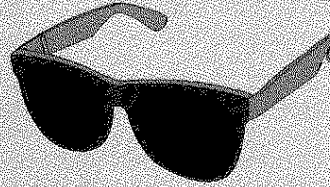
Book
\$ 4.34



Shirt
\$ 5.00



Sunglasses
\$ 5.99



Bag
\$ 3.75



The items in the picture above are on sale. Ellen buys two of the items for a total cost of \$9.74. Which two items did she buy?

A bag and sunglasses

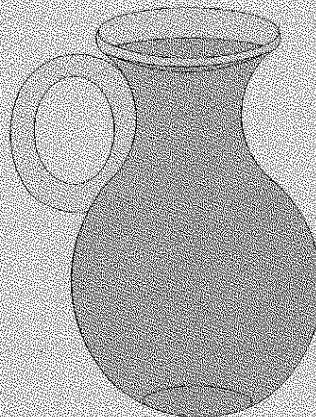
B book and shirt

C book and bag

D sunglasses and shirt

41

4L



200ml



4 litres of water are poured from the jug shown above into a glass which can hold 200ml. How many glasses of water can be taken from the jug?

A 2

B 20

C 200

D 2000

42 John has 15 apples, James has four times as many. How many more apples does James have than John?

- A 19 B 45 C 60 D 75

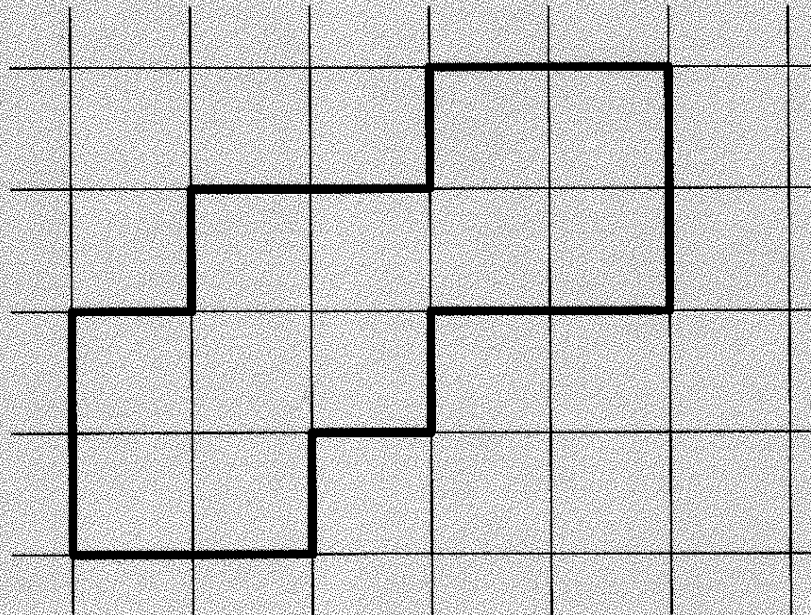
43 12 tins of condensed milk are needed to make 2 tubs of ice cream. How many tins of condensed milk are needed to make 6 tubs of ice cream?

- A 18 B 24 C 36 D 144

44 If it is 17:30 now, what time was it 45 minutes ago?

- A 16:15 B 16:30 C 16:45 D 18:15

45 If each small square in the diagram has a side of length 1cm, what is the perimeter, in centimetres, of the shape?



- A 11 B 12 C 18 D 24

46

Use the numbers below to answer questions **46** and **47**.

7, 1, 4, 2, 6, 2, 5, 2, 6

When arranged in order of size, the middle score is

- A 1 B 2 C 4 D 6

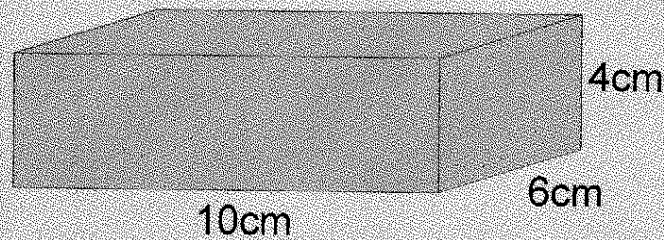
47

Which score occurs the most?

- A 1 B 2 C 4 D 6

48

Use the diagram of the cuboid below to answer questions **48** and **49**.



How many vertices does a cuboid have?

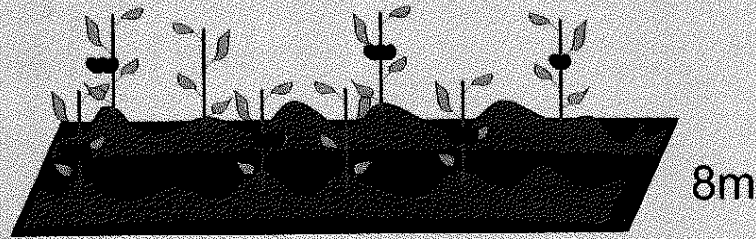
- A 6 B 8 C 10 D 12

49

The cuboid has dimensions 4cm, 6cm and 10cm. What is its volume, in cm^3 ?

- A 240 B 120 C 64 D 20

50



The diagram above represents a rectangular garden plot 8 metres wide. Its length is 5 metres longer than its width. What is the area of the plot, in m^2 ?

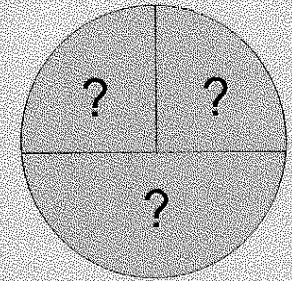
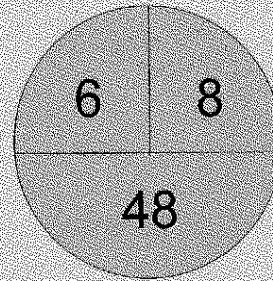
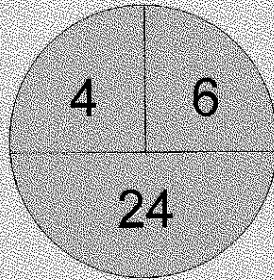
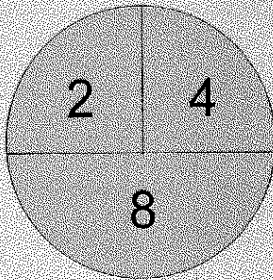
A 26

B 40

C 42

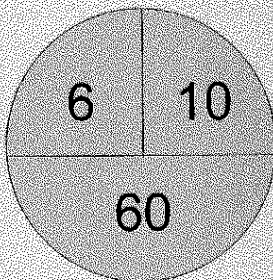
D 104

51

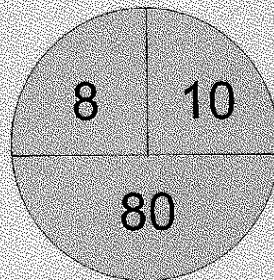


The next diagram which follows the pattern is:

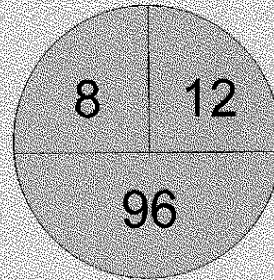
A



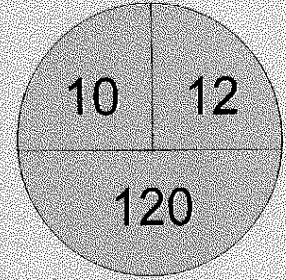
B



C



D



52

The mean average of three numbers is 7. Two of the numbers are 4 and 9. What is the third number?

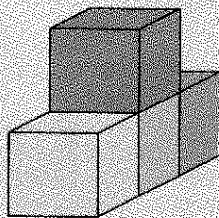
A 6

B 7

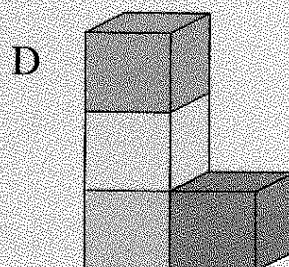
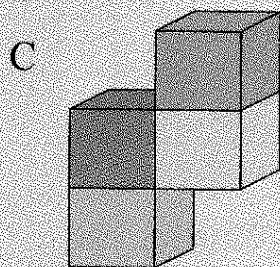
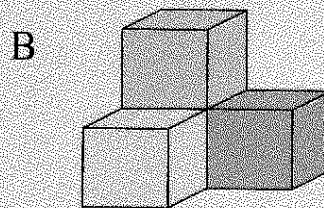
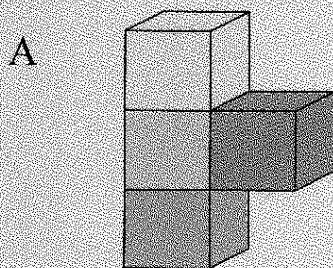
C 8

D 9

53



Jane used four cubes to make the shape shown above. Which one of the following diagrams shows the same shape?



54

A car travels for $2\frac{1}{2}$ hours at a speed of 42km/h. How far does the car travel?

A 96km

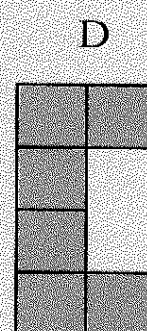
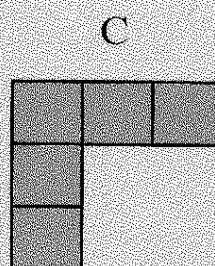
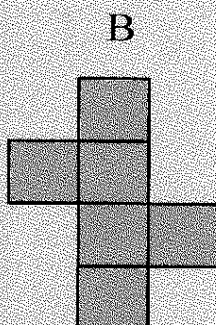
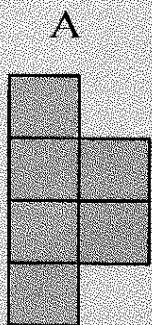
B 100km

C 105km

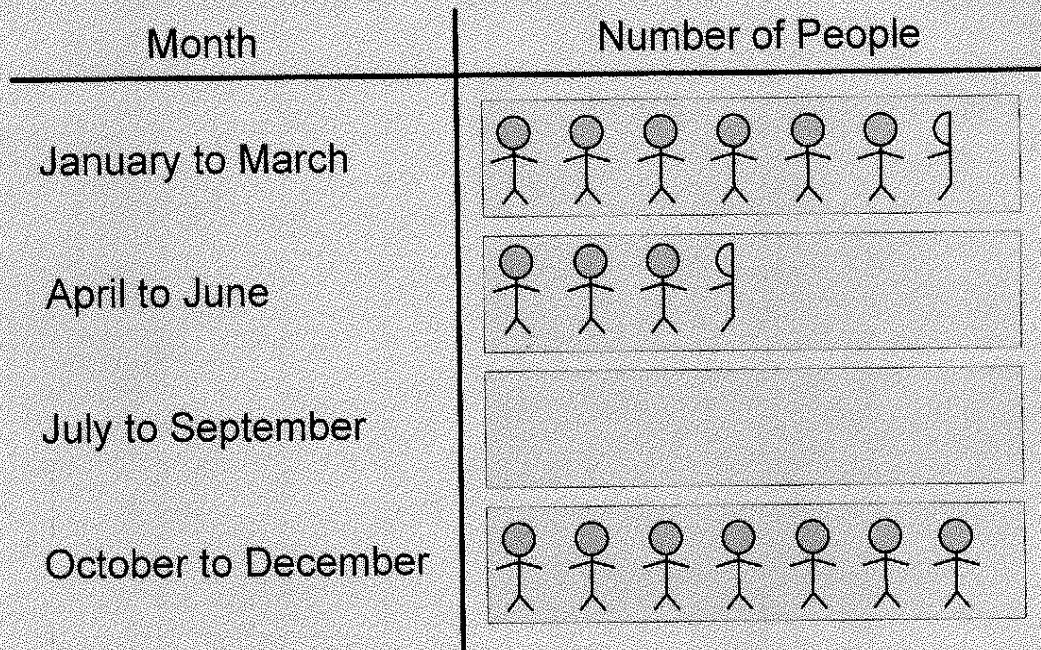
D 140km


55

Which of the following nets could be cut out and folded into a cube?



Class 6 did a survey on birthday months. The pictograph below shows the number of children with birthdays in each three months of the year. Use the pictograph to answer questions **56** , **57** and **58** .



Key:  = 2 people

56 18 children had birthdays in July, August and September. How many stick people should be drawn on the pictograph to represent these people?

- A 3 B 9 C 17 D 18

57 How many people have a birthday before July?

- A 3 B 10 C 18 D 20

58 Nobody has a birthday in October. Six people have a birthday in November. How many people have a birthday in December?

- A 1 B 4 C 6 D 8

The frequency table below shows the daily attendance of students in Miss Smith's class for a week. Use the table to answer questions **59** and **60**.

Days of the week	Number of students present
Monday	20
Tuesday	15
Wednesday	25
Thursday	10
Friday	30

59 What is the average daily attendance for the week?

A 10

B 15

C 20

D 25

60 Which bar graph below represents the information given?

