TRINIDAD AND TOBAGO

SECONDARY ENTRANCE ASSESSMENT

SPECIMEN BOOKLET

FILL IN ALL INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE ☐☐☐☐☐☐☐

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SUBJECT ___MATHEMATICS___

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Please place your label here.

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WRITE THE NAME OF YOUR SCHOOL BELOW:

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

READ THE FOLLOWING DIRECTIONS CAREFULLY

1. **This test is divided into THREE sections.**
2. **Make sure you read the instructions before you start to work on any section.**
3. **Write all your answers in this test booklet.**
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

WRITE YOUR FULL NAME BELOW:

DATE OF BIRTH		
Day	*Month*	*Year*

SEX   MALE ☐

FEMALE ☐

Instructions for the Mathematics Test

You are **NOT** allowed to use **calculators**.

This test has **THREE** sections with a total of 45 questions.

SECTION I has 20 questions (Nos. 1-20).

SECTION II has 20 questions (Nos. 21-40).

SECTION III has 5 questions (Nos. 41-45).

You have 75 minutes for this test.

Answer ALL questions.

Read EACH question CAREFULLY before answering it.

Show ALL working.

Marks will be given for correct steps taken.

Work carefully but DO NOT spend too much time on any one question.

DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.

Section I

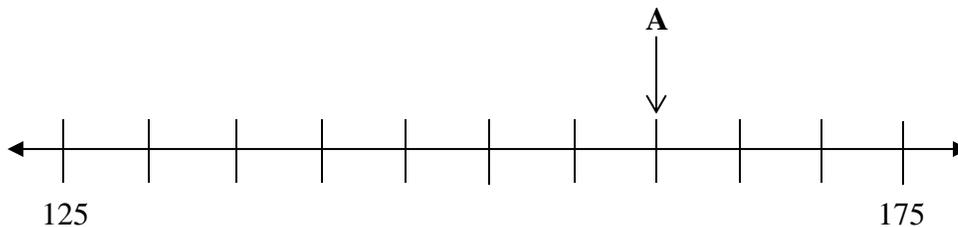**1.** Write the value of the underlined digit in the numeral.

$$124.\underline{3}9$$

Answer: _____

2. Round 2 845 to the nearest thousand.

Answer : _____

3. $194 - 86 = 170 + \boxed{} - 86$

Answer: _____

4. What is the numeral at position A on the number line?

Answer: _____

5. Calculate 25% of 160.

Answer: _____

6. What fraction is shaded?

$$\frac{3}{5}$$

$$\frac{3}{10}$$
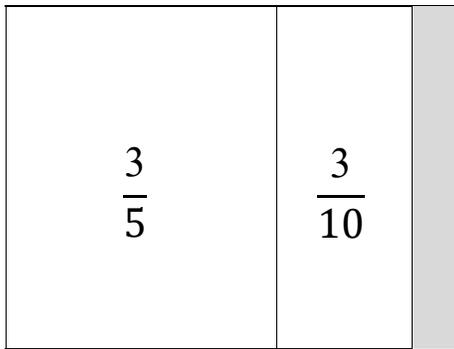
Answer: _____

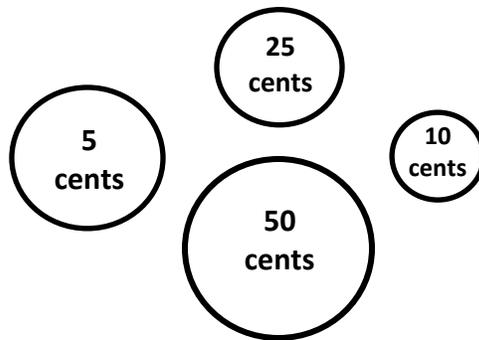**7.** Write the total value of the bills and coins.

Answer: _____

8.

$$\begin{array}{r} 4\ 0\ 6 \\ \times\quad 2\ 7 \\ \hline \end{array}$$
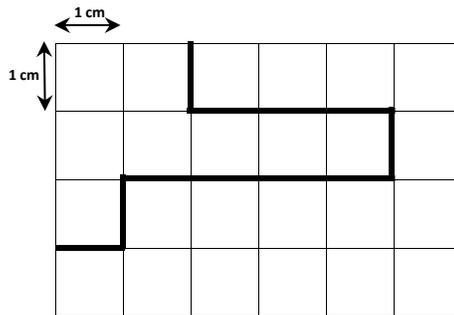
Answer: _____

9. A set of five coins sums to one dollar.
Draw the missing coin.

25
cents

5
cents

10
cents

50
cents

10. Write the missing digit in the box provided.

$$\begin{array}{r} 2\ 0\ 6\ 9 \\ +\quad 4\ \boxed{}\ 8 \\ \hline 2\ 5\ 2\ 7 \end{array}$$

11. State the length of the bolded line on the grid.

1 cm

1 cm

Answer: _____

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12. How many more 250 g blocks are needed to balance the scale?

250 g

1 kg
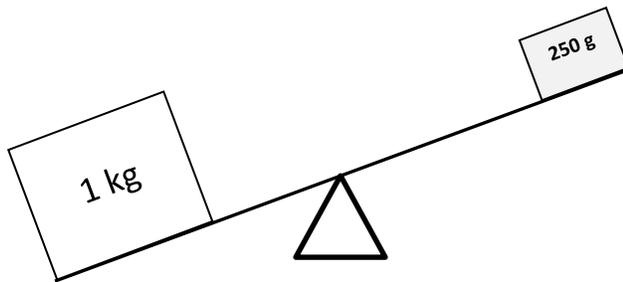
Answer: _____

13. Alan celebrated his birthday on the 28th of May.
Sachin celebrated his birthday 16 days before Alan.
When is Sachin's birthday?

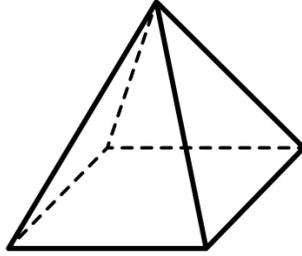| MAY 2018						
SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Answer: _____

14. Express the amount of juice in millilitres.

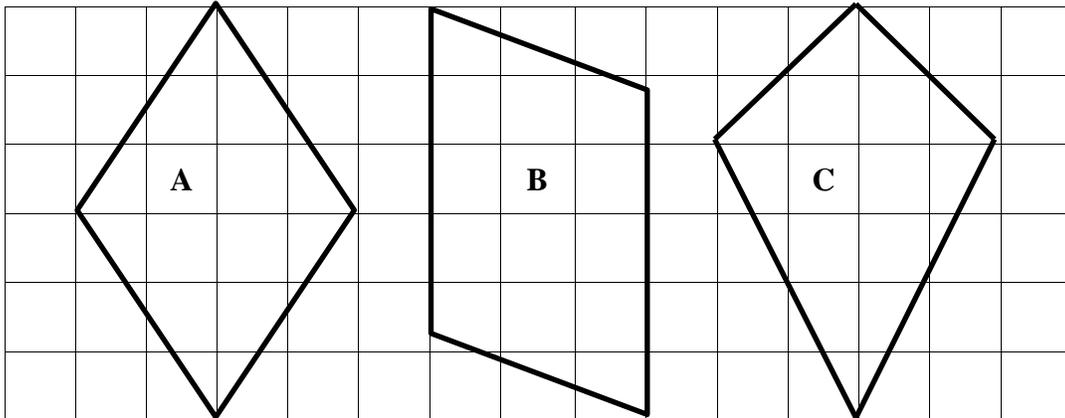1.4 Litres

Answer: _____ millilitres

15. The diagram shows a square based pyramid.

What is the sum of the number of faces and vertices?

Answer: _____

16. Which of the following shapes is a rhombus?

A   B   C

Answer: _____

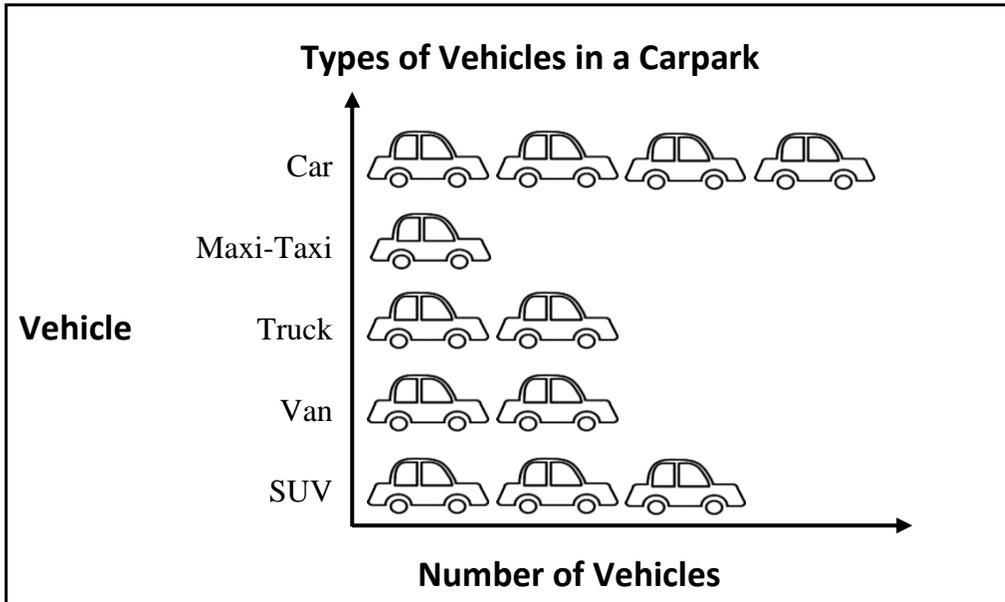**17.** How many right angles are there altogether on the faces of a cube?

Answer: _____

18. The tally chart shows the favourite colours of 33 students in a class.

Insert the missing information to complete the tally chart.

Drink	Tally	Frequency
Red	卌 ||	7
Blue	卌	5
Yellow		
Green	卌 |||	8

19. The pictograph shows the types of vehicles in a carpark.

Types of Vehicles in a Carpark

What is the modal type of vehicle?

Answer: _____

20. The table shows the number of drawings created by students in an Art class.

Name of Student	Mary	Sunil	Jada	Henry	Kimani
Number of Drawings	8	4	12	6	10

Which student created the mean number of drawings?

Answer: _____

Section II

21. Complete the pattern in the spaces provided.

(2 marks)

$$\sqrt{169} \quad \sqrt{121} \quad \sqrt{81} \quad \text{_____} \quad \text{_____} \quad \sqrt{9}$$

22. Asha and Rhoda bought 125 roses for a flower show.
Rhoda bought 4 times as many roses as Asha.
How many roses did Rhoda buy?

(2 marks)

Answer: _____

23. John had 180 marbles. He gave Sachin $33\frac{1}{3}$ % of his marbles.
Calculate how many marbles John has remaining.

(2 marks)

Answer: _____

24. St. George's Prep School went on a field trip. Both teachers and students paid $60 each. If the school paid $2 160 for transport, how many 12 seater maxi-taxis were hired?

(2 marks)

Answer: _____

25. Joseph bought 5 bicycles at a total cost of $3 125.00.
He later sold the 5 bicycles to make a profit of 100%.
How much was the selling price of the 5 bicycles?

(2 marks)

Answer: _____

26. Sonja discovered $\frac{2}{5}$ of the pens she bought were not working.

She also noticed $\frac{1}{4}$ of the working pens were red.

If 36 of the working pens were red, how many pens did Sonja buy?

(3 marks)

Answer: _____

27. A roll of string was used to make kites.

Inshan used $\frac{1}{4}$, Mark used $\frac{3}{8}$ and Lisa used $\frac{7}{24}$ of the roll of string.

Calculate the difference in length between the shortest and longest pieces of string used.
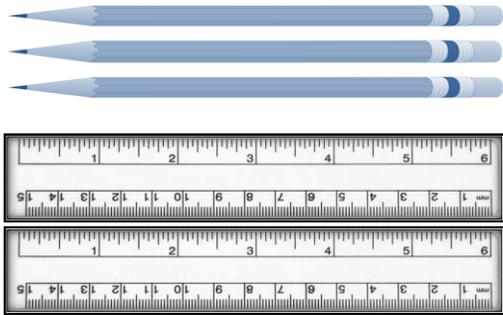
(3 marks)

Answer: _____

28. Kelly is 8 years old.
Marcy is 10 years older than Kelly and 4 years older than Dan.
Dan is twice as old as Patrick.
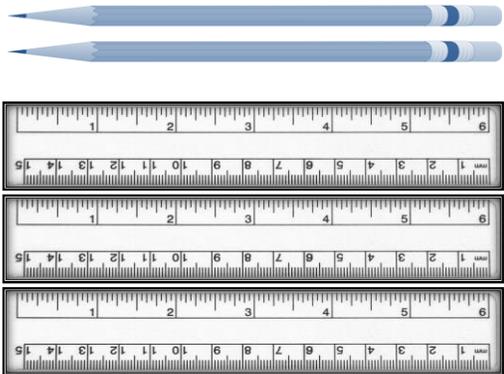How old is Patrick?

(3 marks)

Answer: _____

29. Darren and Ann bought the school supplies shown.

Darren's Supplies	Ann's Supplies

Total cost - $19.00

Total cost - $21.00

What is the total cost of 10 pencils and 10 rulers?

(3 marks)

Answer: _____

30. Alana and Jabari both multiplied some numbers by 5.
Alana said, "You always get a product of 5 or more."
Jabari responded, "No, you can also get a product that is smaller than 5."
Who is correct? Explain your answer giving examples.

(3 marks)

Answer:

_____

_____

_____

_____

_____

_____

_____

31. A movie ended at the time shown on the digital clock.

If the movie lasted for one hour and fifty-five minutes, at what time did the movie start given that the clock is 10 minutes slow?

(2 marks)

Answer: _____

32. Tariq has a 4-litre bottle of sorrel.
He drinks 250 millilitres of sorrel every day.
How many days does he take to finish drinking all the sorrel in the bottle?

(2 marks)

Answer: _____

33. Sally bought three blocks of cheese.
Block A has a mass of 0.94 kilograms.
Block B has a mass of 160 grams less than Block A.
Block C has a mass of 700 grams more than Block B.
What is the total mass of the three blocks of cheese to the nearest kilogram?

(3 marks)

Answer: _____ kilograms

34. Mr. Ali wants to tile his office floor. The area of the floor is 90 000cm^2.

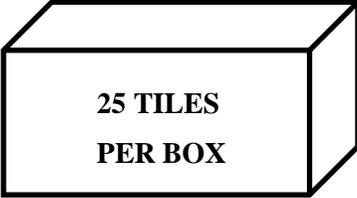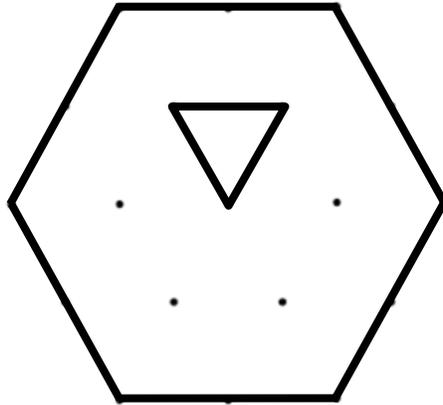| SALE ON TILES	SALE ON TILES
$50 per box	$55 per box
15 cm × 15 cm	20 cm × 20 cm
40 TILES PER BOX	25 TILES PER BOX

Which size tile should be used so that it is cheaper to tile the area of the entire floor? Show all working.

(3 marks)

Answer:

_____

_____

35. Triangular-shaped tiles of equal sizes were used to cover the hexagon. One tile is shown.
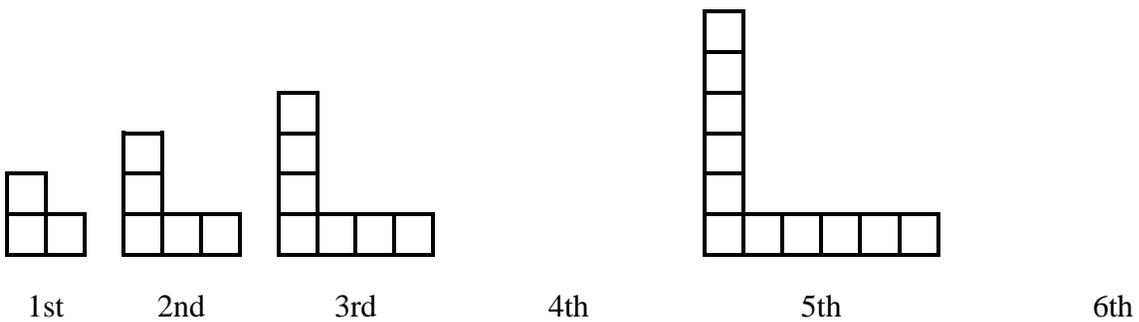

How many tiles were used altogether?
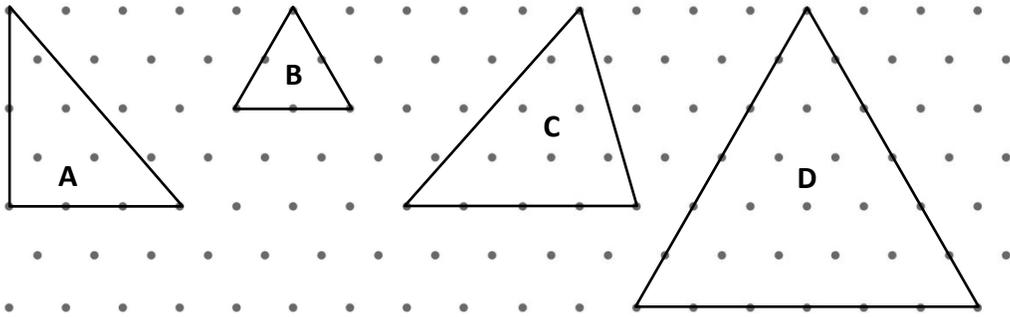
(2 marks)

Answer: _____

36. Draw the 4ᵗʰ and 6ᵗʰ elements to complete the pattern.

(2 marks)

1st   2nd   3rd   4th   5th   6th

37. State which two triangles are similar, giving your reasons.

(3 marks)

Answer:

_____

_____

_____

_____

_____

38. The pictograph represents the number of medals won by two runners.

Runner	Number of Medals
Ricardo	✦ ✦ ✦ ✦ ✦
Jeremy	✦ ✦ ✦ ◁

Complete the table, using the information from the pictograph.

(2 marks)

Runner	Number of Medals
Ricardo	30
Jeremy	

39. The bar graph shows the ice-cream sales at the cafeteria during the week.
The flavours of the ice-cream are missing from the graph.
Chocolate is liked the most. Vanilla is liked the least.
Coconut is preferred more than strawberry.

Flavours of Ice-cream
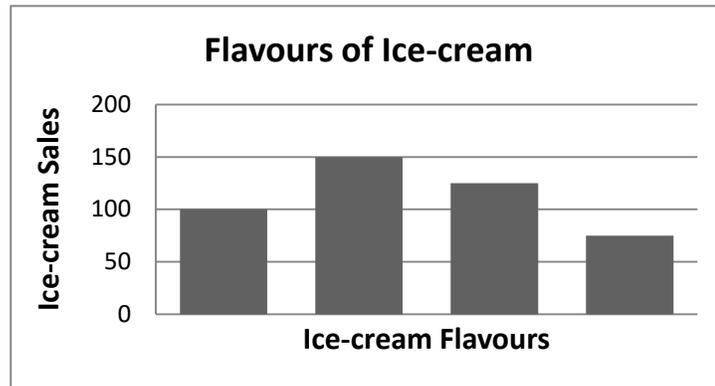
How many strawberry flavoured ice-cream were sold?

(3 marks)

Answer: _____

40. The table shows the toys sold at Helen's store in one month.

Toy	Dolls	Cars	Video Games	Board Games
Number sold	24	16	32	20

If her store sold 4 more Cars, would there be a change in the modal toy for the month? Explain your answer.

(3 marks)

Answer:

_____

_____

_____

_____

_____

Section III

41. The table below shows the number of books borrowed by students from the school library in a week.

Number of Books	Number of Students
0	?
1	34
2	36
3	63
4 or more	81

Three-fifths of the students borrowed 3 books or more.
How many students did not borrow any book?
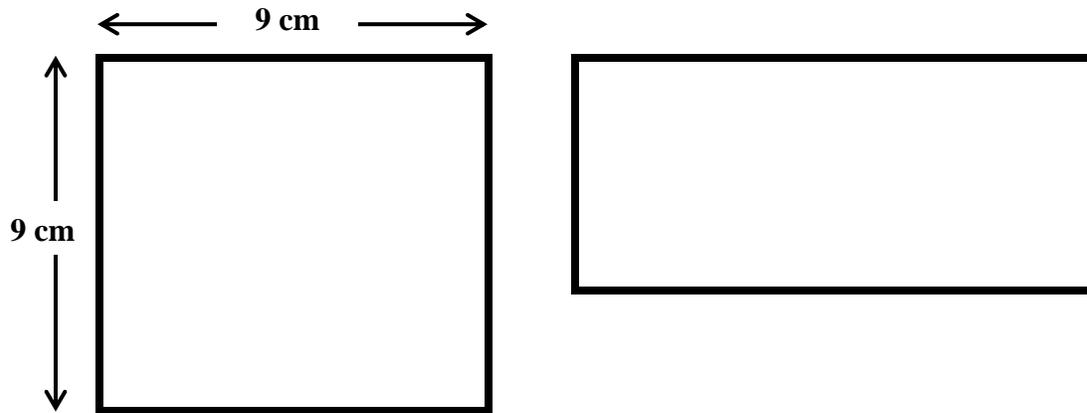
(4 marks)

Answer: _____

42. Gary works 40 hours from Monday to Friday and is paid $60.00 per hour.
He works twice the number of hours on Saturday than on Sunday.
He is paid time and a half on both days.
How many hours does Gary work on a Saturday if he earns $3 480.00 in one week?

(4 marks)

Answer: _____

43. The perimeters of the rectangle and square below are the same. (not drawn to scale)
The length of the rectangle is twice its width.

9 cm

9 cm

What is the difference between the areas of the square and the rectangle?
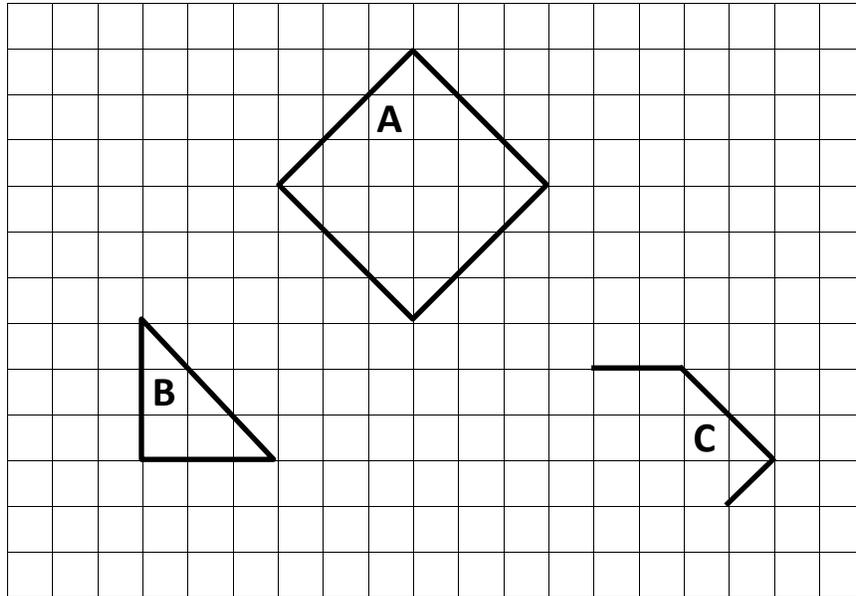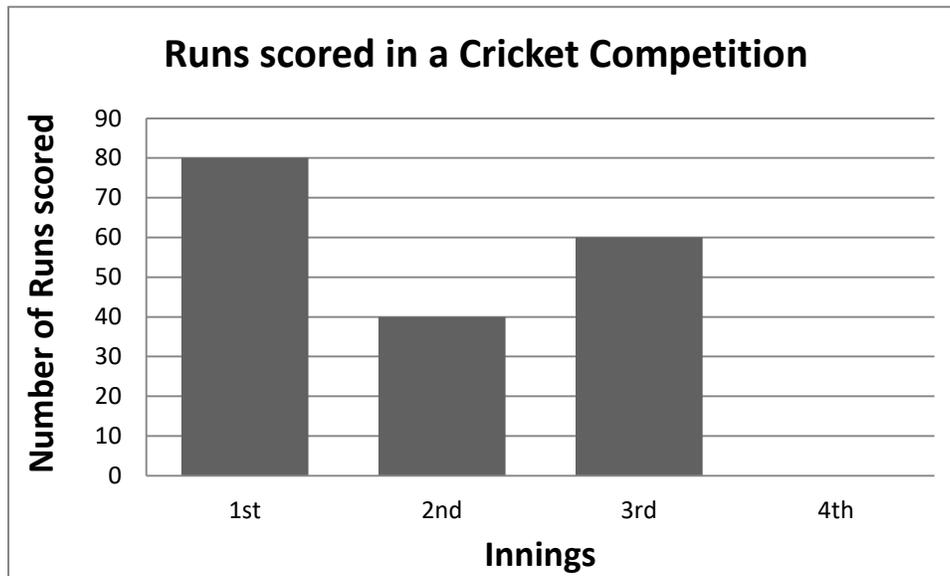
(4 marks)

Answer: _____

44. The grid shows two complete shapes A and B, and an incomplete shape C.

   a) Draw the line of symmetry that is common to shapes A and B.

   b) Shapes A and C also have a common line of symmetry.
       Draw the line of symmetry and complete the shape C.

(4 marks)

45. The bar graph shows the number of runs scored by a school in a cricket competition with four innings.

Runs scored in a Cricket Competition

The mean number of runs scored before the 4th inning was 5 less than the mean number of runs scored after the 4th inning.

How many runs were scored in the 4th inning?

(4 marks)

Answer: _____

END OF TEST

**IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK
BEFORE HANDING IN YOUR PAPER**