Year 5 Term 3 Test

Student Name: _____	**Grade**: _____
Date: _____	**Score**: _____

- Answer the questions in the spaces provided on the question sheets.
- If you run out of room for an answer, continue on the back of the page.
- This test has 49 questions, for a total of 100 marks.
- Do not use a calculator.
- Attempt all 49 questions.
- Time allowed: 60 minutes.

Page:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
Marks:	10	10	10	10	6	4	4	6	6	4	10	6	4	4	6	100
Score:																

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Whole Numbers — (Questions 1 through 5)

Question 1 ..... *(2 marks)*

700 thousands 70 tens and 7 written as a numeral is:

Question 2 ..... *(2 marks)*

Round off 987654 to the nearest ten thousand is:

Question 3 ..... *(2 marks)*

$13 \times \boxed{?} + 5 = 723 + 296$. Find the missing number that fits in the box.

Question 4 ..... *(2 marks)*

What is the value of the third digit in the numeral 234567?

Question 5 ..... *(2 marks)*

What is the smallest number that can be taken away from the numeral 3458 so than it is divisible by 12?

Fractions — (Questions 6 through 10)

Question 6 ..... *(2 marks)*

$3\frac{1}{3} + \frac{1}{5} + 24 \div \frac{6}{3} = ?$

Question 7 ..... *(2 marks)*

What number should be in the box to make this statement true. $\frac{65+\boxed{?}}{161} = \frac{3}{7}$

Question 8 ..... *(2 marks)*

Jane manages to type 282 words in 6 minutes. How many words can she type in $1\frac{1}{3}$ hours if she continues at the same rate?

Question 9 ..... *(2 marks)*

How many eighths are there in $12\frac{3}{4}$?

Question 10 ..... *(2 marks)*

What fraction of 2 **ha** is 120 m^2?

Decimals — (Questions 11 through 15)

Question 11 ..... *(2 marks)*

Find the sum of 45.67 and 87.65. Correct the answer to 1 decimal place.

Question 12 ..... *(2 marks)*

Solve the following:

$3.25 \times 2.8 + 2.05 - 1.6 = ?$

Question 13 ..... *(2 marks)*

$0.015 \times 1000 = 3 \div \boxed{?}$. Find the missing number in the box.

Question 14 ..... *(2 marks)*

A book and a pen cost a total of \$25.50. If the pen cost \$2.50 more than the book, How much does the pen cost?

Question 15 ..... *(2 marks)*

Divide 56.4 by 2.4. The answer is:

Percentages — (Questions 16 through 20)

Question 16 . . . . . *(2 marks)*

Express 0.02 as a percentage:

Question 17 . . . . . *(2 marks)*

Express 60 out of 80 as a percentage:

Question 18 . . . . . *(2 marks)*

Find the number if 12% of it is 96.

Question 19 . . . . . *(2 marks)*

A MP3 player has a price marked $152 was sold on a 15% discount. How much did I pay for this MP3 Player?

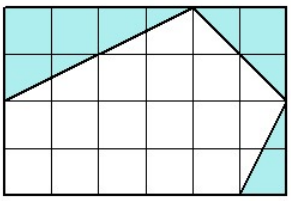
Question 20 . . . . . *(2 marks)*

David spent $140 and was left with $20. What percentage of his money did he spend?

Measurements — (Questions 21 through 25)

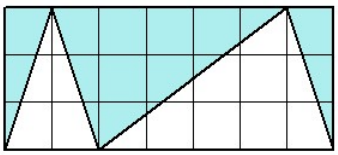
Question 21 . . . . . *(2 marks)*

The rectangle is made up of equal squares. What is the area of the unshaded part of the rectangle?



Question 22 . . . . . *(2 marks)*

What fraction of the rectangle shown in the diagram is shaded?

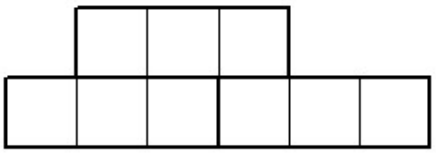


Question 23 . . . . . *(2 marks)*

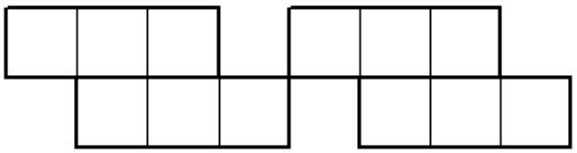
The perimeter of a rectangular play ground is 76 metres. What is the dimension of the play ground if the length is 2 metres more than twice the width?

Question 24 . . . . . *(2 marks)*

Find the area of the figure B if the figure A has a perimeter of 32 cm.



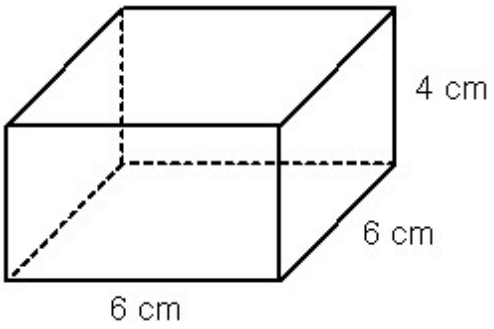
A



B

Question 25 . . . . . *(2 marks)*

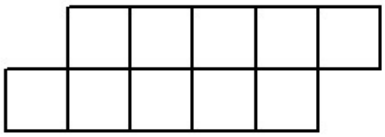
Find the surface area of a square based prism shown below:



Shapes and Graphs — (Questions 26 through 29)

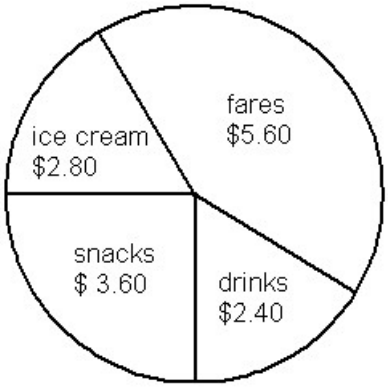
Question 26 . . . . . *(2 marks)*

How many rectangles can you find in the following figures?



Question 27 . . . . . *(2 marks)*

The pie chart shows how Bonnie spent her pocket money on an excursion. What fraction of her pocket money was spent on drinks?

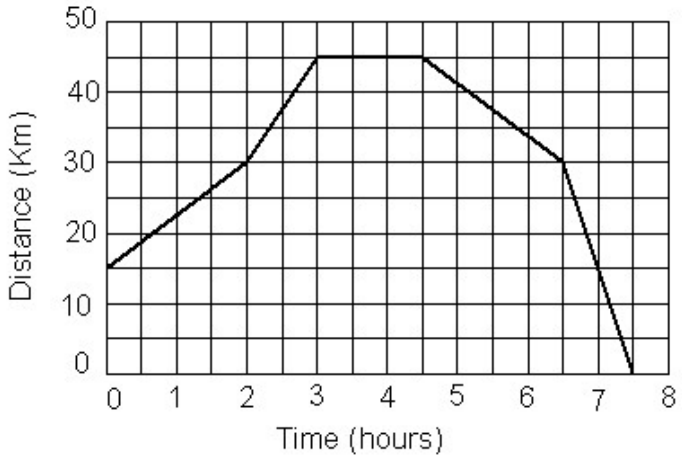


Question 28 . . . . . *(2 marks)*

How many diagonals does a regular hexagon have?

Question 29 . . . . . *(4 marks)*

The travel graph shows the distance from home of a man on a trip.



(a) What was his average speed for the whole journey? [2]

(b) What is the average speed for the last three hours? [2]

Number Theory — (Questions 30 through 34)

Question 30 . . . . . *(2 marks)*

What is the most likely number needed to complete the pattern in the table?

2	5	4	3	6	1	7
7	19	14	10	?	5	32

1	2	3	4	5	6	7

Question 31 . . . . . *(2 marks)*

Which one of these numbers is divisible by 9: 1234, 2345, 3456, and 4567.

Question 32 . . . . . *(2 marks)*

Five consecutive even numbers whose sum is 150. What is the largest number?

Question 33 . . . . . *(2 marks)*

All integers are arranged in 8 columns as shown. In which column will 177 be in?

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

Question 34 . . . . . *(2 marks)*

The product of three prime numbers is 595. The sum of two of these prime numbers is 24. Find the third prime number.

Algebra — (Questions 35 through 39)

Question 35 ..... *(2 marks)*

12x + 12 = 6x + 24

Question 36 ..... *(2 marks)*

$\frac{x+4}{2} = 8$

Question 37 ..... *(2 marks)*

5y - 12 = 13

Question 38 ..... *(2 marks)*

The sum of two numbers is 25. The difference of the same two numbers is seven. Find the largest number.

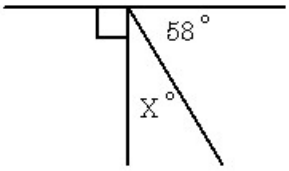
Question 39 ..... *(2 marks)*

The difference of two numbers is 16. The large number is 8 more than three times the smaller number. What is the smallest number?

Angles — (Questions 40 through 44)

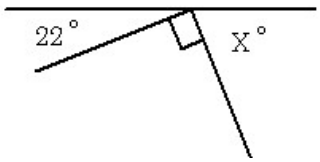
Question 40 . . . . . *(2 marks)*

Find the value of the pronumeral:



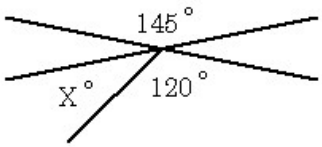
Question 41 . . . . . *(2 marks)*

Find the value of the pronumeral:



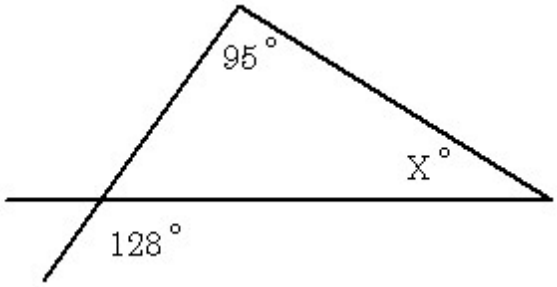
Question 42 . . . . . *(2 marks)*

Find the value of the pronumeral:



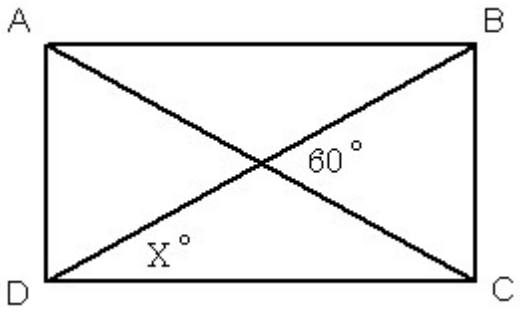
Question 43 . . . . . *(2 marks)*

Find the value of the pronumeral:



Question 44 . . . . . *(2 marks)*

ABCD is a rectangle. Find the value of the pronumeral:



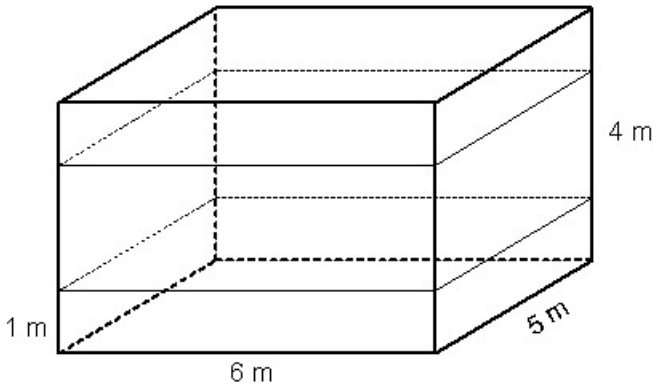
Problem Solving — (Questions 45 through 49)

Question 45 . . . . . *(2 marks)*

A factory manufactures 1700 toy-cars in $\frac{1}{3}$ hour. How long will it take to manufacture 6120 toy-cars?

Question 46 . . . . . *(2 marks)*

A rectangular tank measuring 6 m by 5 m by 4 m contains water to 1 m. How much more water is needed to fill up $\frac{3}{4}$ of the tank?



Question 47 . . . . . *(2 marks)*

The ratio of Adam's number of stamps to Bob's is 12 : 7. The ratio of Bob's number of stamps to Crystal is 5 : 4. Express Adam's number of stamps as a ratio of Crystal's in its simplest form.

Question 48 . . . . . *(2 marks)*

Linda has a average score of 78 in the first four tests. What mark will she need for the fifth test to bring her average score to 79?

Question 49 . . . . . *(2 marks)*

Eight years ago a man was twice as old as his brother. If his brother will be 18 years old next year, how old is the man?