



BROAD HORIZON
— T U I T I O N —

11+ Tuition

Year 5 - Online

Assessment Test 4

Answers

Total: _____ /130 _____ %

Pass mark is 70% 91 / 130

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Overview of Your Scores		
	Your Score	%
Venn diagram	/ 14 marks	
Graph Work	/ 30 marks	
Angles in Triangles	/ 8 marks	
Angles in Shapes	/ 7 marks	
Rotation of Shapes	/ 8 marks	
Mixed Questions	/ 21 marks	
Verbal Techniques	/ 24 marks	
Non-verbal	/18 marks	

Maths /88 %

Vocabulary /24 %

Non-verbal /18 %

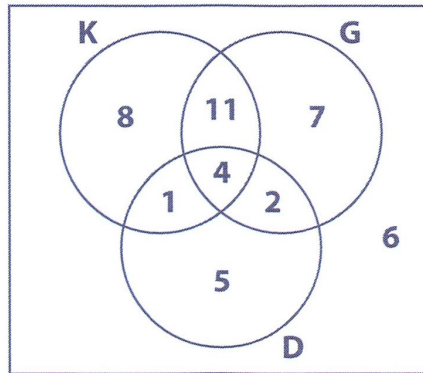
Total /130 %

Maths

Venn Diagrams

Read each Venn diagram and answer the questions that follow.

- 1) The Venn diagram below shows the numbers of students in Grade 5 who have enrolled for keyboard (K), guitar (G), and drum (D) classes.



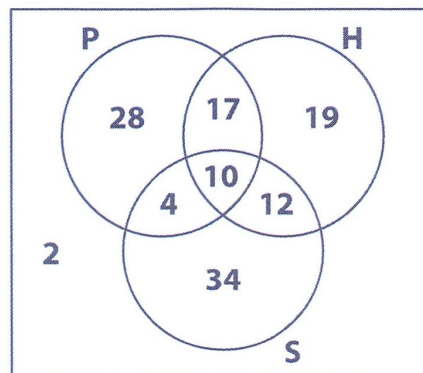
- a) How many students have enrolled for guitar classes?

24 students

- b) Find the number of students have not enrolled for any of the classes.

6 students

- 2) The Venn diagram that follows represents the number of hot dogs sold at Janice’s Kitchen with three different toppings - Peanut Satay sauce (P), Hoisin BBQ sauce (H), and Spicy Mayo (S).

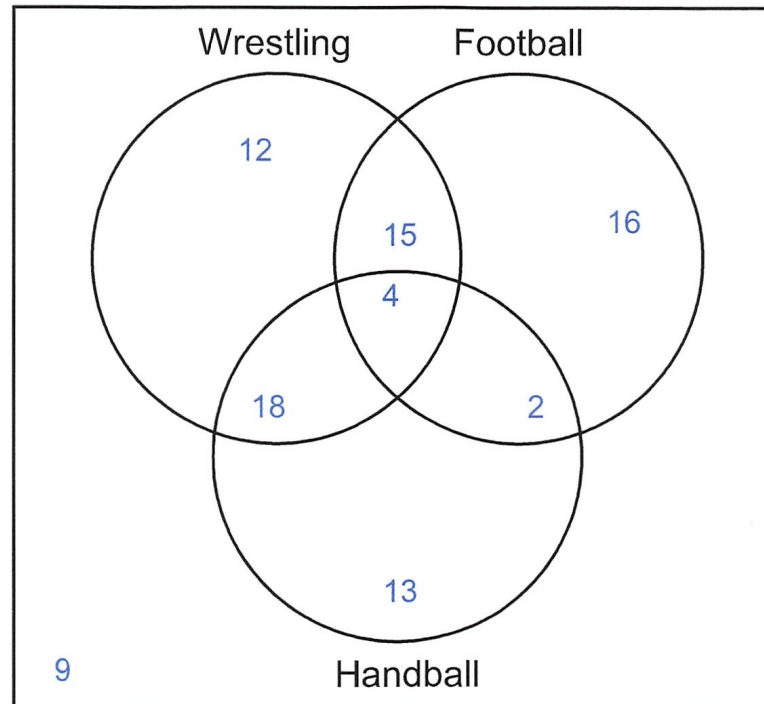


- a) Find the hot dogs sold with all three toppings.

10 hot dogs

- b) How many hot dogs were sold with at least two toppings?

43 hot dogs



- 1) How many students do not like either Wrestling or Football ? 22
- 2) How many students like Football or Handball but not Wrestling ? 31
- 3) How many students like Wrestling or Football but not Handball ? 43
- 4) How many students do not like both Football and Handball ? 83
- 5) How many students do not like both Wrestling and Football ? 70
- 6) How many students only like Wrestling ? 12
- 7) How many students like both Wrestling and Football but not Handball ? 15
- 8) How many students like Wrestling or Handball ? 64
- 9) How many students like both Wrestling and Handball ? 22
- 10) How many students do not like either Wrestling or Handball ? 25

1) Which type of car was sold the most? SUV

2) How many fewer sports cars were sold than hatchbacks? 1400

3) How many more SUV cars were sold than Sedans? 1200

4) The sales of sports cars and minivans putting together equals the sales of Sedan

5) Find the number of cars sold in all. 14,400

1) Which family traveled the most distance? Ronald's Family

2) How many miles did Brad's family travel? 650 miles

3) How many fewer miles did Craig's family travel than Karl's family? 250 miles

4) Was Ronald's family traveling twice the distance of Craig's family? Yes

5) Name the families who traveled more than 500 miles.
Ronald's Family, Brad's Family and Karl's Family

1) What is the highest recorded temperature? 95°F

2) Where do you see a raise of 10°F in the graph? January-February

3) Which is the coldest month? January

4) Which month recorded 80°F? April

5) What is the temperature recorded in the month of December? 65°F

1. Which type of magazine was their best seller? Humor

2. How many fashion magazines were sold? 715

3. Which magazines were sold about half the total number of magazines sold? Sports, Humor

4. Which type of magazine was sold 275 in number? Automobile

5. How many business and health & fitness magazines were sold? 1760

1. What is the percentage of snowy days? 20 %

2. What percent of days were neither sunny nor rainy? 35 %

3. How many days were snowy than windy? 30

4. Which weather was recorded as 5% in her report ? Windy

5. What is the percentage of sunny days? 35 %

1. What is the age group of people who attended the concert most in number? How many? 21-30 years, 200

2. If each ticket cost \$25, how much income did they earn from people within the age group of 10-20 years? 2000

3. Which age group people were fewer? 31 - 50 years or below 10 years? Below 10 years

4. How many dozens of people above 50 years attended the concert? 10 dozens

5. How many kids below 10 years attended the concert? 50

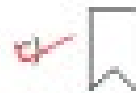
Missing Angles in Triangles

- 1) 55**
- 2) 31**
- 3) 19**
- 4) 70**
- 5) 60**
- 6) 138**
- 7) 52**
- 8) 43**

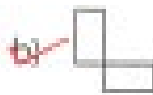
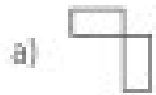
Angles in Shapes

- 1) 720**
- 2) 900**
- 3) 1800**
- 4) 108**
- 5) 135**
- 6) 140**
- 7) 360**

1) Which one of the following is a 90° clockwise rotation of  about the origin?



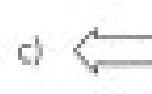
2) Which one of the following is a 90° counterclockwise rotation of  about the origin?



3) Which one of the following is a 180° rotation of  about the origin?



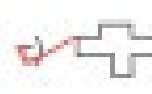
4) Which one of the following is a 90° counterclockwise rotation of  about the origin?



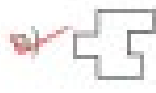
5) Which one of the following is a 180° rotation of  about the origin?



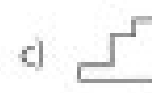
6) Which one of the following is a 90° clockwise rotation of  about the origin?



7) Which one of the following is a 90° counterclockwise rotation of  about the origin?



8) Which one of the following is a 90° clockwise rotation of  about the origin?



Mixed Questions

- 1) 67,158
- 2) 100
- 3) 6 5.5 5 5
- 4) 3:17pm
- 5) a) 1, 2, 3, 4, 6, 8, 12, 24
b) 12
c) 36
- 6) Area = 4717cm squared
Perimeter = 284cm
- 7) 5560cm squared
- 8) 24,000cm cubed
- 9) 180
- 10) 3015
- 11) 458,000
- 12) 0.0067
- 13) 1 and $\frac{2}{7}$
- 14) $\frac{10}{21}$

Verbal Reasoning

GL Techniques

Type 5:

- 1) they
- 2) epic **T5/1**

Type 6:

- 3) MALE
- 4) CORN
- 5) DAME **T6/1**

Type 8:

- 6) plea
- 7) sale
- 8) peat **T8/1**

Type 10:

- 9) Popeye Pluto
- 10) rose bluebell
- 11) soap sponge **T10/1**

Type 17:

- 12) 3 5 1 4 2
 - 13) 3 5 4 2 1
- T17/2**

Type 18:

- 14) boat sails wind
 - 15) mechanic car
- garage **T18/2**

Type 19:

- 16) **YELLOW**
17) **LONDON**
18) **JUMPER** **T19/2**
-

Type 20:

- 19) **din**
20) **pen** **T20/2**
-

Type 21:

- 21) **w**
22) **g** **T21/2**
-

Type 22:

- 23) **MESH**
24) **THAT** **T22/2**
-

Non-Verbal Reasoning**ASSESSMENT TEST 6****Section 1 — Changing Bugs**

1. B

The shapes of the bug's body segments each gain an extra side.

2. A

Two stripes are added to the bug's body.

3. C

The bug's body rotates 60 degrees clockwise.

4. D

The whole bug reflects across and the shading of its base changes from white to black.

Section 2 — Complete the Hexagonal Grid

1. D

The hexagons on opposite sides of the hexagonal grid are identical.

2. B

Going in a clockwise direction from the top hexagon, the level of grey shading in the raindrop increases in each outer hexagon.

3. B

Going in a clockwise direction from the top hexagon, the arrow rotates 60 degrees anticlockwise in each outer hexagon.

Section 3 — Reflect the Figure

1. B

Options A, C and D are the wrong shape.

2. D

In options A and B, the triangle is positioned incorrectly in relation to the star. In option C, the shape has not been reflected, and the star has moved to the front.

3. B

In option A, the arrow has been reflected but the star is positioned incorrectly. In option C, the figure is not reflected and the star and arrowhead have swapped shading. In option D, the star has the wrong number of points.

4. A

Option B is a rotated reflection. Options C and D have the wrong shapes at the ends of their lines.

Section 4 — 3D Building Blocks

1. D

The block on the bottom of set D moves to become the bottom-front part of the figure on the left. The block on the top of set D rotates 90 degrees right-to-left and moves to become the left-hand part of the figure.

2. A

The block on the top of set A rotates away from you 90 degrees top-to-bottom and moves to become the bottom part of the figure on the left. The block on the bottom of set A rotates 90 degrees in the plane of the page and moves to become the top right-hand part of the figure.

3. C

The block on the bottom of set C rotates 90 degrees left-to-right to become left-hand part of the figure on the left. The top right-hand block of set C moves to become the right-hand part of the figure. The top-left block of set C moves to become the top block in the figure.

Section 5 — Odd One Out

1. D

All other figures have a circle inside the large shape.

2. D

In all other figures, the arrow marks a line of symmetry.

3. E

In all other figures, the hatching is horizontal.

4. C

In all other figures, the corner with the smallest angle is shaded.