



BROAD HORIZON
— T U I T I O N —

11+ Tuition

Year 4

Week 24

ANSWERS

Starter Task – Quick Revision

1. What is 40% of 200?

80

2. What is 55% of 300 ?

165

3. Work out $\frac{4}{7}$ of 161

92

4. Work out $\frac{5}{12}$ of 192

80

5. $4^2 + 20 \times 3 \div 2^2$

31

6. Convert 32% into a fraction (simplify)

8/25

7. What is the median of 3, 12, 7, 15, 8 and 2

7.5

8. $13 \div 100 =$

0.13

9. What is $99 \times 7 =$

693

10. Convert 0.2 into a fraction (simplify)

1/5

Exercise C

1. Impure
2. Conquer
3. Glimpse
4. Peculiar
5. Relegated
6. Creak
7. Quarter
8. Illegible
9. Nausea
10. Juggle

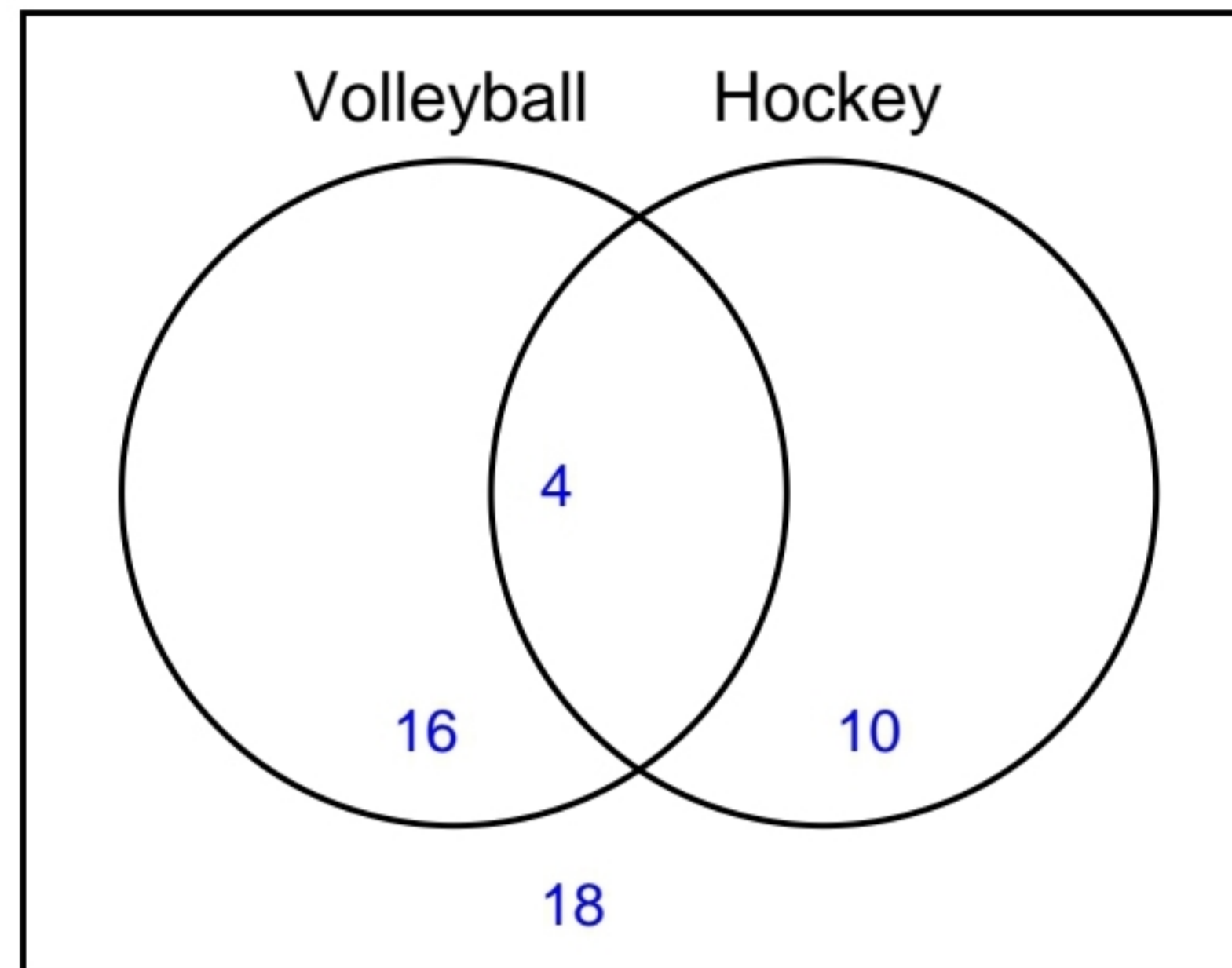
Name : _____

Score : _____

Teacher : _____

Date : _____

Answer the Questions Based on the Venn Diagram



- 1) How many students do not like Volleyball ? 28
- 2) How many students like Volleyball ? 20
- 3) How many students do not like both Volleyball and Hockey ? 44
- 4) How many students like Hockey ? 14
- 5) How many students only like Volleyball ? 16
- 6) How many students like Volleyball or Hockey ? 30
- 7) How many students like both Volleyball and Hockey ? 4
- 8) How many students do not like either Volleyball or Hockey ? 18
- 9) How many students do not like Hockey ? 34
- 10) How many students only like Hockey ? 10

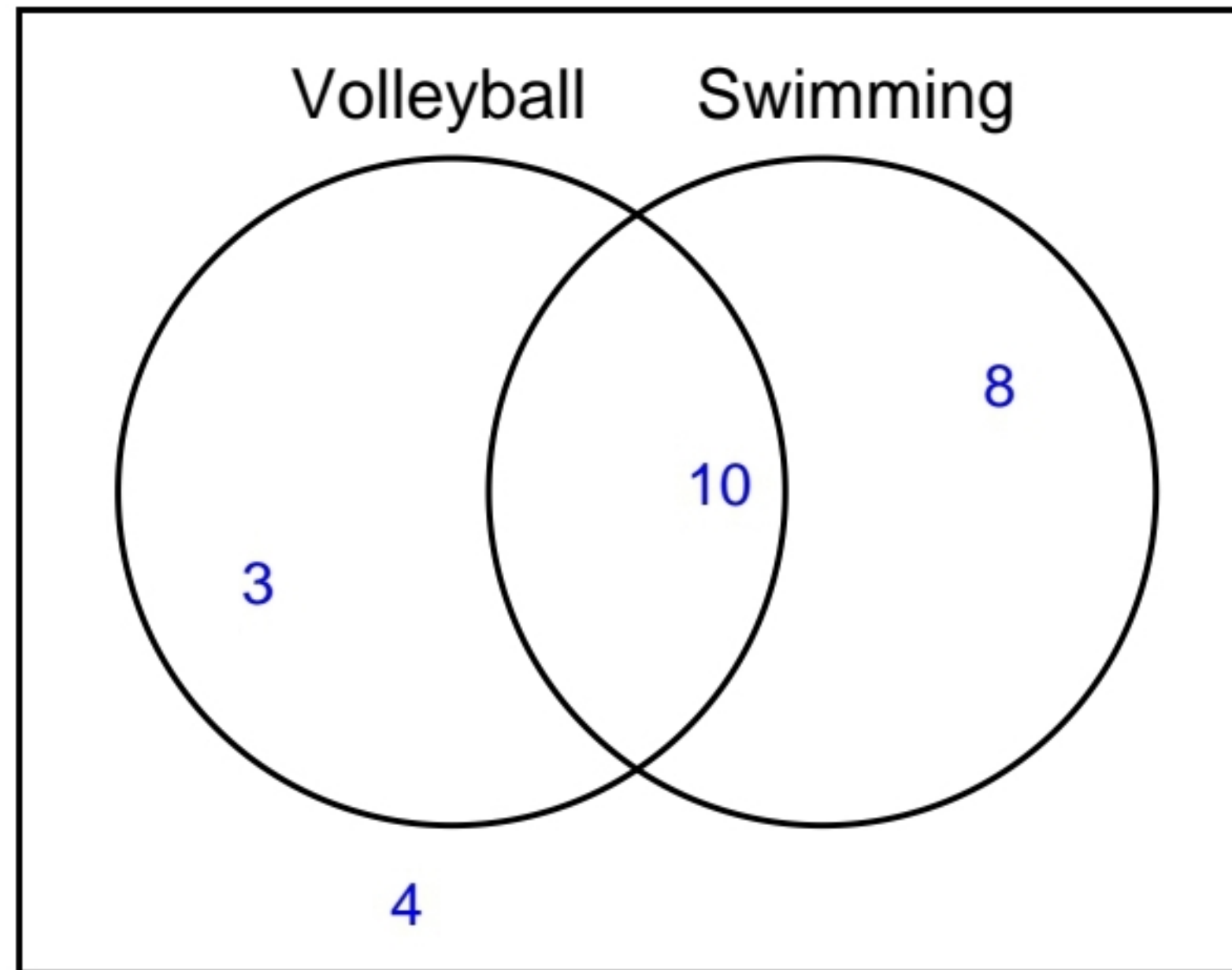
Name : _____

Score : _____

Teacher : _____

Date : _____

Answer the Questions Based on the Venn Diagram



- 1) How many students do not like Swimming ? 7
- 2) How many students do not like both Volleyball and Swimming ? 15
- 3) How many students like Volleyball or Swimming ? 21
- 4) How many students only like Swimming ? 8
- 5) How many students do not like Volleyball ? 12
- 6) How many students like both Volleyball and Swimming ? 10
- 7) How many students do not like either Volleyball or Swimming ? 4
- 8) How many students like Volleyball ? 13
- 9) How many students like Swimming ? 18
- 10) How many students only like Volleyball ? 3

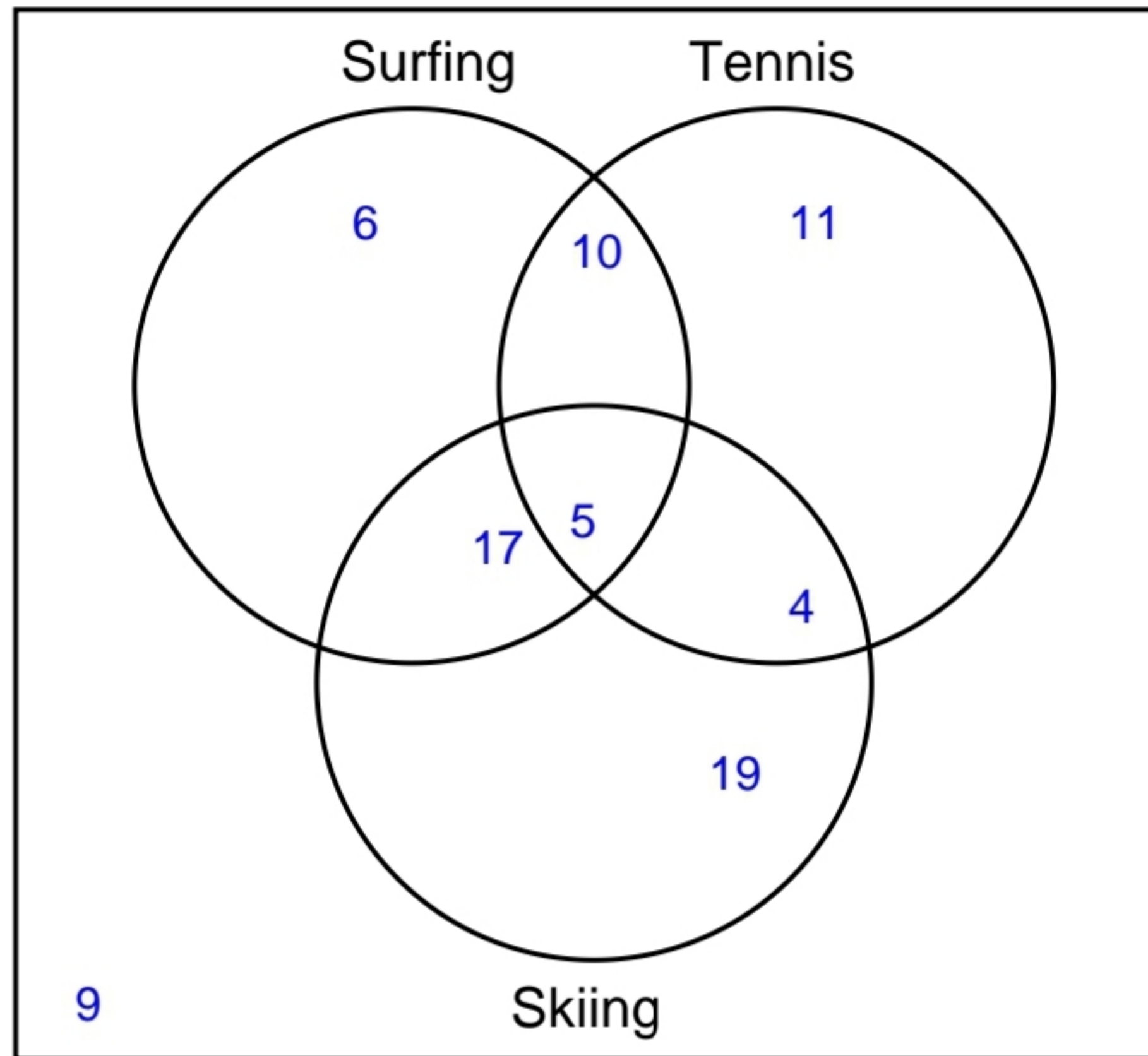
Name : _____

Score : _____

Teacher : _____

Date : _____

Answer the Questions Based on the Venn Diagram



- 1) How many students like Surfing or Skiing ? 61
- 2) How many students do not like either Tennis or Skiing ? 15
- 3) How many students do not like both Tennis and Skiing ? 72
- 4) How many students only like Skiing ? 19
- 5) How many students like Surfing or Tennis but not Skiing ? 27
- 6) How many students do not like both Surfing and Tennis ? 66
- 7) How many students like both Surfing and Tennis ? 15
- 8) How many students like both Surfing and Skiing but not Tennis ? 17
- 9) How many students only like Tennis ? 11
- 10) How many students like Surfing or Tennis ? 53

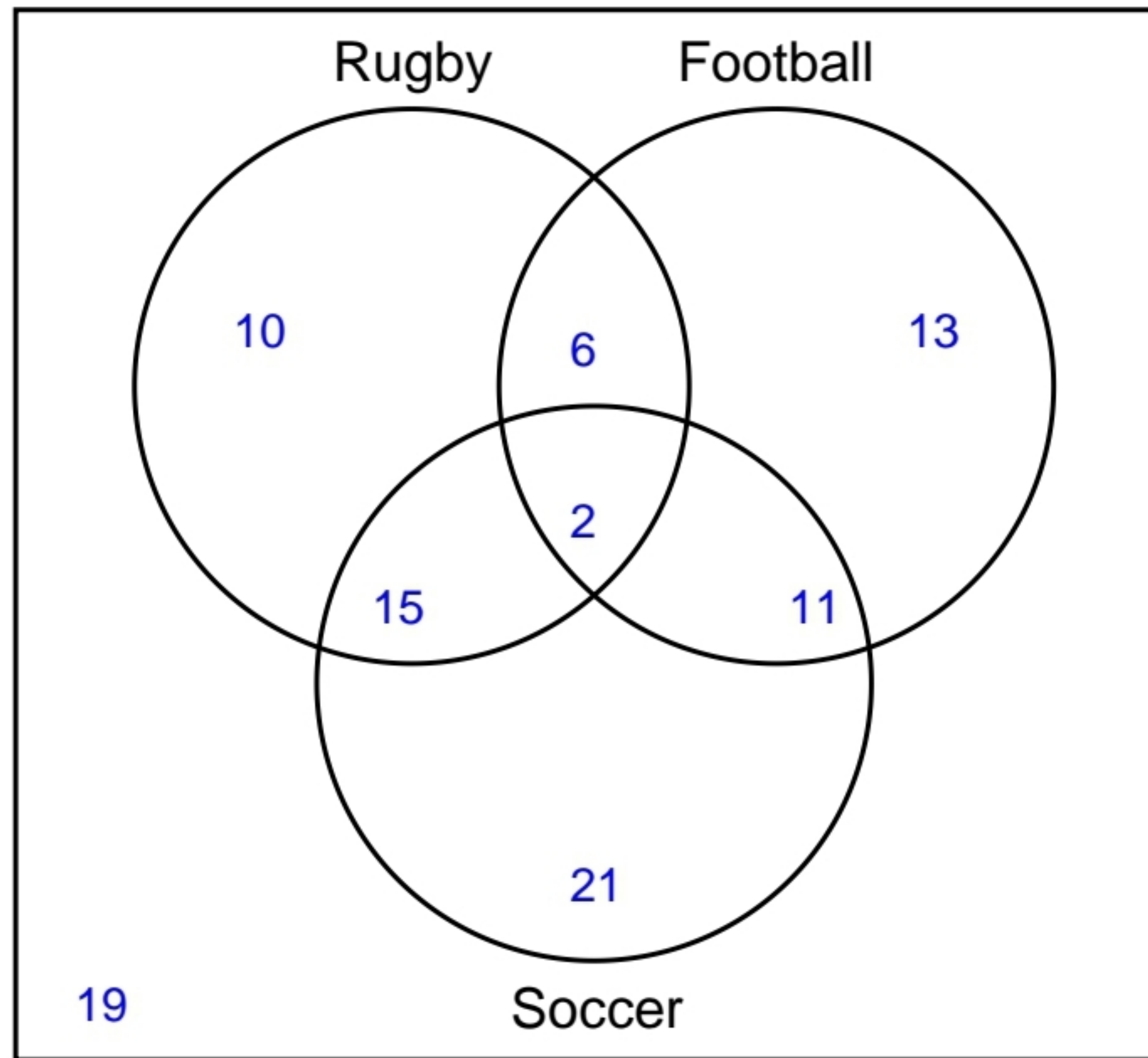
Name : _____

Score : _____

Teacher : _____

Date : _____

Answer the Questions Based on the Venn Diagram



- 1) How many students like Football or Soccer but not Rugby ? 45
- 2) How many students do not like both Rugby and Soccer ? 80
- 3) How many students like both Rugby and Football ? 8
- 4) How many students like Rugby or Soccer but not Football ? 46
- 5) How many students only like Rugby ? 10
- 6) How many students do not like either Rugby or Football ? 40
- 7) How many students like Rugby or Football but not Soccer ? 29
- 8) How many students do not like both Football and Soccer ? 84
- 9) How many students like both Rugby and Soccer but not Football ? 15
- 10) How many students only like Soccer ? 21

Exercise 32 - The Competitive Friend, page 33

Question	Answer	Explanation
1	Red	Inferred from the line: 'Philippa leapt out of her red MINI... She was wearing... shorts the same colour as her car.'
2	Lights	Inferred from the line: 'He had arrived twenty minutes earlier on a rickety and poorly equipped bicycle, which was impossible to see at night.'
3	Disappointed/cross/ annoyed/unhappy	Inferred from the line: '...he made a face which perfectly expressed his disappointment at his friend's lateness.'
4	Normal/fine/good	Inferred from the line: 'Philippa apologised, and said that there had been terrible traffic, which was not true.'
5	Philippa	Inferred from the line: '...vowing to himself that this time he would win their game of tennis. Predictably, this did not happen...'
6	Philippa	Inferred from the line: '...vowing to himself that this time he would win their game of tennis. Predictably, this did not happen...'

Inference: Fiction

Exercise 33 - Good Friends, page 34

Question	Answer	Explanation
1	Music	Inferred from the line: '...they could enjoy concerts... Simon...had space for a piano.'
2	Priyanka's	Inferred from the line: 'Konrad's place was particularly minute... Simon had a larger place...'
3	Simon	Inferred from the line: 'Simon's friends, Priyanka and Konrad, lived near the centre of town... Simon had a larger place further from the centre...'
4	A teacher	Inferred from the line: 'He worked in a school, and his pupils always did well...'
5	At night	Inferred from the line: 'He often enjoyed listening to obscure classical music until the early hours...'
6	Simon is moving overseas.	Inferred from the line: 'Simon announced that he planned to move overseas...'

Exercise 34 - Holiday Delays, page 35

Question	Answer	Explanation
1	She doesn't know what to do.	Inferred from the line: '...Helena scratched her head for a while, then, thinking of a solution...'
2	By driving/by car	Inferred from the line: 'Looking at the flat tyre on her car...'
3	Pick her up and take her to the ferry	Inferred from the line: '...rang her mother. She was going to need help if she was going to get to the ferry on time.'
4	Her father	Inferred from the line: 'Robert was secretly pleased at this unexpected call; he had been worried about his daughter...'
5	His daughter's driving/safety	Inferred from the line: '...he had been worried about his daughter as she had only recently passed her driving test.'
6	By bicycle	Inferred from the line: 'She would have to cycle the three miles to get it.'

TYPE EIGHTEEN:

mechanic car garage
doctor patient measles
fire-engine house fire
blackbird egg nest
which car garage
lady spectacles handbag
which platform 6 p.m.
pupil books library
boy ball net
artist portrait easel
robber bank mask
when school sister
who ceiling now
boy scooter wall
boat two Tuesday
boy playground lunch

Test 17

1. the llama is a quadruped
2. the children made a snowman in the garden
3. the tree grew in the middle of the field
4. tomorrow is going to be a difficult day
5. the music is very loud
6. the film was exciting
7. the fireworks lit up the sky
8. they were amazed at the magic trick
9. they paddled in the sea
10. he read the letter carefully

Synonyms: Select the Word Test 22

Q1 E
bewilderment

Q2 D
useless

Q3 B
risk

Q4 C
recess

Q5 A
preoccupied

Q6 E
elegant

Q7 D
outdated

Q8 E
exhausting

Q9 B
harvest

Q10 B
freakish

Q11 A
embarrass

Q12 D
merciless

Q13 D
income

Q14 B
holy

Q15 E
disagree

PAGE 6 — MIXED SPELLING QUESTIONS

1. **donkeys** — 'donkies' should be 'donkeys' — it ends in 'y' and there's a vowel before the 'y', so you just add 's' to make it plural.
2. **raspberries** — 'raspberrys' should be 'raspberries' — it ends in 'y' and there's a consonant before the 'y', so you change the 'y' to 'ies' to make it plural.
3. **knock** — 'nock' should be 'knock' — it has a silent 'k'.
4. **staircase** — 'starecase' should be 'staircase' — 'stair' means 'a set of steps', whereas 'stare' means 'to look intently'.
5. **guilty** — 'gilty' should be 'guilty' — many words containing a 'g' have a 'u' between the 'g' and the next vowel — 'guess' is another example.
6. **sandwich** — 'sanwich' should be 'sandwich' — there's a 'd' after the 'n'.
7. **recommend** — 'reccommend' should be 'recommend' — it has one 'c' and two 'm's.
8. **their** — 'there' should be 'their' — it means 'belonging to them'.
9. **weigh** — 'wiegh' should be 'weigh' — the vowel sound doesn't rhyme with 'bee', so 'e' comes before 'i'.
10. **sun** — 'son' should be 'sun' — the sentence refers to the star in our solar system, not a male child.
11. **wonderful** — 'wonderfull' should be 'wonderful' — it has a single 'l' at the end.
12. **competition** — 'compitition' should be 'competition' — the root word is 'compete'.
13. **protein** — 'protien' should be 'protein' — it is an exception to the rule: 'i before e except after c, but only when it rhymes with b'.
14. **actually** — 'actualy' should be 'actually' — it should have a double 'l' in the middle.
15. **inefficient** — 'imefficient' should be 'inefficient' — the prefix is 'in'.
16. **collection** — 'collectian' should be 'collection' — the suffix is 'ion'.
17. **excitement** — 'excitment' should be 'excitement' — the root word is 'excite' and it keeps the final 'e' when the suffix 'ment' is added.
18. **secretary** — 'secratary' should be 'secretary' — it has an 'e' in the middle.

PAGE 7 — MIXED SPELLING QUESTIONS

1. **to** — 'to' makes sense here because it is a preposition linking the nouns 'Kate' and 'people'.
2. **too** — 'too' makes sense here because it refers to something excessive.
3. **whether** — 'whether' makes sense here because it expresses a choice between alternatives.
4. **weather** — 'weather' makes sense here because it means 'atmospheric conditions', e.g. what the temperature is and whether it's raining.

5. **borrow** — 'borrow' makes sense here because it means 'to receive something as a temporary loan'.
6. **lend** — 'lend' makes sense here because it means 'to give something as a temporary loan'.
7. **wear** — 'wear' makes sense here because it is a verb meaning 'to have on the body'.
8. **where** — 'where' makes sense here because it is an adverb which shows location.
9. **worse** — 'worse' makes sense here because it is a comparative adjective.
10. **worst** — 'worst' makes sense here because it is a superlative adjective.
11. **well** — 'well' makes sense here because it is an adverb describing the verb 'done'.
12. **good** — 'good' makes sense here because it is an adjective describing Chunni's ability to make friends.
13. **lose** — 'lose' makes sense here because it means 'to fail'.
14. **loose** — 'loose' makes sense here because it means 'not tight'.
15. **dessert** — 'dessert' makes sense here — it has a double 's' in the middle when it refers to a pudding.
16. **desert** — 'desert' makes sense here — it has a single 's' in the middle when it refers to a dry and barren land.
17. **who** — 'who' makes sense here because it refers to a person.
18. **which** — 'which' makes sense here because it refers to an object.

- Q3 D**
three
- Q4 B**
dimensional
- Q5 J**
depth
- Q6 H**
object
- Q7 I**
light
- Q8 E**
bounces
- Q9 C**
piece
- Q10 G**
captures

Cloze Wordbank Test 15

- Q1 E**
longships
- Q2 J**
plunder
- Q3 H**
adventurers
- Q4 B**
Norway
- Q5 I**
North
- Q6 F**
coasts
- Q7 G**
evidence
- Q8 K**
exists
- Q9 M**
common
- Q10 D**
woodland

Cloze Wordbank Test 16

- Q1 A**
unlike
- Q2 F**
pictures

ASSESSMENT TEST 3

Section 1 — Complete the Series

1. A

In each series square, a quarter-circle is added. The first quarter is the bottom-left quarter and the others are added anticlockwise. The first quarter is white and the others are added in an alternating grey / white pattern.

2. C

In each series square, the black triangle rotates 90 degrees clockwise around the white square.

3. C

In each series square, the white circle gains an extra black dot. The arrow alternates between pointing right and pointing left.

4. B

The squares in this series are in two pairs. In each pair, the bottom shape rotates 90 degrees clockwise and changes shading from white to grey.

5. D

In each series square, an extra line crosses the triangle. The triangle alternates between pointing to the top-left and top-right corners.

6. B

In each series square, the figure rotates 45 degrees and gets bigger.

7. C

In each series square, an extra shape is added. The colours of the shapes alternate between black and white.

8. B

Each series square is reflected across and gains an extra black star.

9. A

Each series square rotates 90 degrees clockwise. The rectangles alternate between having a solid and dashed outline.

10. C

In each series square, the square rotates 90 degrees anticlockwise. The small black square alternates position between the bottom and top of the vertical line.

Section 2 — Find the Figure Like the First Three

1. C

All figures must have five sides.

2. C

All figures must have two triangles.

3. C

All figures must contain two crosses and one circle.

4. D

All figures must contain three versions of the same shape between two lines. One must be black and the other two must be white.

5. C

All figures must have two overlapping shapes with the same number of sides.

6. C

All figures must be identical apart from rotation. (D is a reflection.)

7. E

In each figure, the number of short lines equals the number of sides of the shape.

8. B

All figures must have two arrows going in a clockwise direction.

Section 3 — Rotate the Figure

1. C

The figure is rotated 180 degrees. Options A, B and D are the wrong shape.

2. B

The figure is rotated 90 degrees clockwise. In option A, the small triangle has become black and the thick black stripe has become white. In options C and D, the triangle is positioned incorrectly and in option C, the stripe is also positioned incorrectly.

3. D

The figure is rotated 135 degrees clockwise. Option A is a reflection. In option B, the triangle and arrow have swapped shadings. In option C, the arrow is positioned incorrectly.

4. A

The figure is rotated 225 degrees clockwise (or 135 degrees anticlockwise). Option B has the wrong arrowheads. In options C and D, the arrows are positioned incorrectly.

5. B

The figure is rotated 90 degrees clockwise. Options A and D are the wrong shape. Option C is a rotated reflection.

6. B

The figure is rotated 135 degrees clockwise. Options A and C have the wrong shading. Option D is a rotated reflection.

7. D

The figure is rotated 270 degrees clockwise (or 90 degrees anticlockwise). Option A has the wrong arrowhead. Option B is a rotated reflection. Option C is the wrong shape.

8. A

The figure is rotated 225 degrees clockwise (or 135 degrees anticlockwise). In option B, the parallelogram has the wrong shading. Option C is a rotated reflection. In option D, the parallelogram is positioned incorrectly.

9. C

The figure is rotated 90 degrees clockwise. Option A is a downwards reflection. In option B, there are too many lines inside the triangles. In option D, the lines in the triangles are positioned incorrectly.

10. C

The figure is rotated 135 degrees clockwise. In option A, the star only has four points. Option B is a reflected rotation. Option D has the wrong number of black lines.

Section 4 — 2D Views of 3D Shapes

1. B

There should be four blocks visible from above, which rules out options A and D. There are two blocks at the front of the shape, which rules out option C.

2. D

There should be four blocks visible from above, which rules out options A and B. There is only one block at the front of the shape, which rules out option C.

3. C

There should be four blocks visible from above, which rules out options A and D. There are three blocks at the front of the shape, which rules out option B.

4. A

There should be five blocks visible from above, which rules out options B and C. There are two blocks at the back of the shape, which rules out option D.

5. B

There should be five blocks visible from above, which rules out options A and C. There are two blocks on the right of the shape, which rules out option D.

6. B

There should be six blocks visible from above, which rules out options A and D. There are three blocks at the back of the shape, which rules out option C.

7. B

There should be six blocks visible from above, which rules out options C and D. There are two blocks on the right of the shape, which rules out option A.

8. C

There should be seven blocks visible from above, which rules out options A and B. There are three blocks at the front of the shape, which rules out option D.

Section 5 — Odd One Out

1. D

All other figures have a white shape on the end of the arrow-style line.

2. D

In all other figures, the line of symmetry is dashed.

3. E

In all other figures, the white shape has four sides.

4. E

In all other figures, there are three thick lines.

5. B

All other figures have two white shapes.

6. D

In all other figures, the shape at the end of the arrow-style line is the same as the large shape.

7. B

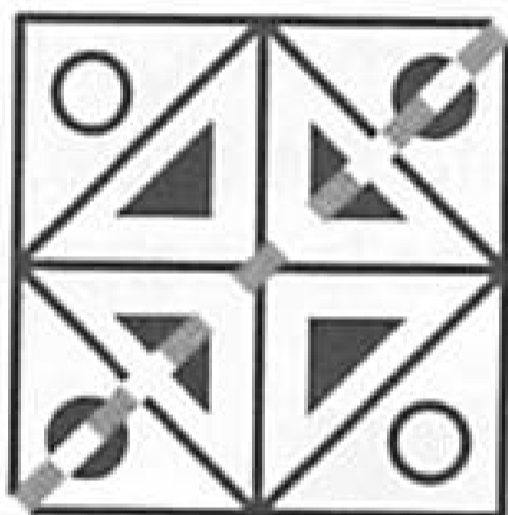
In all other figures, the two circles are on adjacent corners of the large shape.

8. C

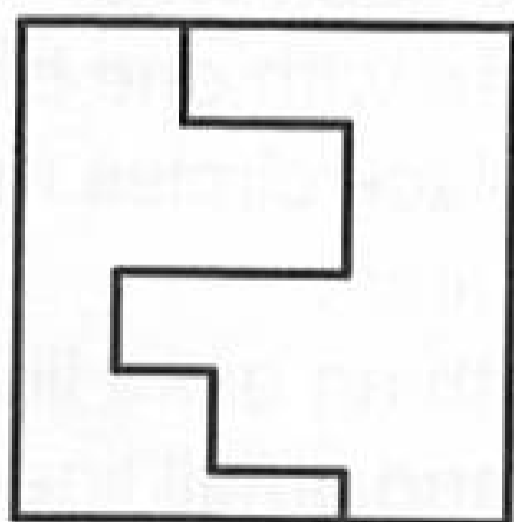
In all other figures, the arrow is pointing at the small grey circle.

Test 1 (pages 2–3)

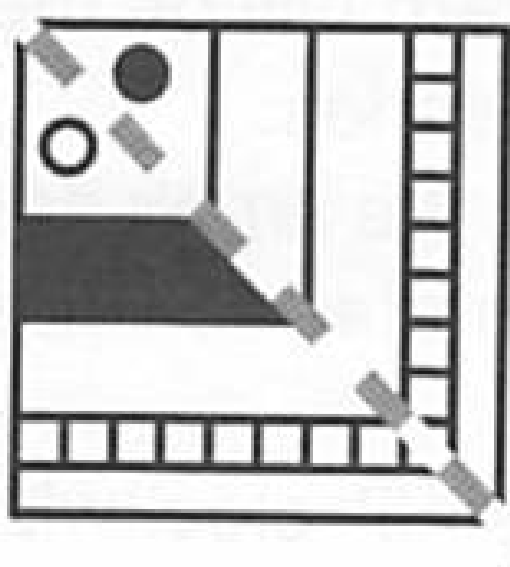
- 1 **c** All of the other shapes have two continuous curved lines.
- 2 **e** All of the other shapes have one L-shaped line.
- 3 **d** All of the other shapes have two white circles and one black circle.
- 4 **e** All of the other shapes have one loop on the curly line.
- 5 **c** All of the other shapes have a vertical line dividing the circle.
- 6 **b** All of the other shapes have the white circle and arrow diagonally opposite.
- 7 **d** The given pattern is in top left and bottom right corner of the grid with the same pattern rotated 90° in the top right and bottom left.
- 8 **e** In the grid diagonally opposite squares are reflected; e is the mirror image of the top left square.



- 9 **c** The thick black arrow goes to white, the white circle stays and a black circle is added beside the white one.
- 10 **e** The whole shape is turned through 180° degrees; the white border of the triangle goes black and black centre goes white.
- 11 **c** None of the other shapes will fit into the spaces cut out of the given shape.



- 12 **e** Only e is a mirror image of the given shape with black and white shading reversed.



Vocabulary 18

Exercise A

1. Populate
2. Miracle
3. Finale
4. Clergy
5. Religion
6. Sphere
7. Domestic
8. Pallid
9. Expectant
10. Fortress

Exercise B

1. Expectant
2. Religion
3. Clergy
4. Miracle
5. Populate
6. Finale
7. Sphere
8. Fortress
9. Domestic
10. Pallid